

# Korea Laboratory Accreditation Scheme

## CERTIFICATE OF ACCREDITATION

### Korea Testing Laboratory

Accreditation No. : KT009

Corporation Registration No. : 254371-0012187

Address of Laboratory : (Branch site)10 Chungui-ro Jinju-si Gyeongsangnam-do, Republic of Korea  
(Branch site-1)87, Digital-ro 26-gil, Guro-gu, Seoul, Republic of Korea  
(Branch site-2)723, Haeon-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, Republic of Korea  
(Branch site-3)122, Jiksan-ro, Jiksan-eup, Seobuk-gu, Cheonan-si, Chungcheongnam-do, Republic of Korea  
(Branch site-4)199, Techno 2-ro, Yuseong-gu, Daejeon, Republic of Korea  
(Branch site-5)10 and 16, Sangdae-ro 72beon-gil, Jinju-si, Gyeongsangnam-do, Republic of Korea  
(Branch site-6)200, Gieopdosi-ro, Jijeong-myeon, Wonju-si, Gangwon-do, Republic of Korea  
(Branch site-7)755, Taejang-ro, Gimpo-si, Gyeonggi-do, Republic of Korea  
(Branch site-8)46, Magokjungang 8-ro 5-gil, Gangseo-gu, Seoul, Republic of Korea  
(Satellite facilities-1)57, Saemangeumsandan 3-ro, Gunsan-si, Jeollabuk-do, Republic of Korea  
(Satellite facilities-2)136, Jiksan-ro, Jiksan-eup, Seobuk-gu, Cheonan-si, Chungcheongnam-do, Republic of Korea  
(Satellite facilities-3)1F, 60-33, Gibae-ro, Hwaseong-si, Gyeonggi-do, Republic of Korea  
(Satellite facilities-4)B1~B2, 60-33, Gibae-ro, Hwaseong-si, Gyeonggi-do, Republic of Korea

Date of Initial Accreditation : December 10, 1994

Validity of Accreditation : September 30, 2022 ~ September 29, 2026

Scope of Accreditation : Attached Annex

Date of issue : June 05, 2024

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).



CHIN CHONGWOOK

Head

Korea Laboratory Accreditation Scheme

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## 01. Mechanical Testing

### 01.001 Metals and Related Products

| Test method    | Materials/<br>Products           | Standard<br>designation                                                                                                       | Test range                                      | Site | Field<br>testing |
|----------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------|------------------|
| ASTM A370-19e1 | Metal and<br>related<br>products | Standard Test Methods<br>and Definitions for<br>Mechanical Testing of<br>Steel Products                                       | Max. 100 kN                                     | BS   | N                |
| ASTM B769-11   | Metal and<br>related<br>products | Standard Test Method<br>for Shear Testing of<br>Aluminum Alloys                                                               | (0 ~ 200) kN                                    | BS-2 | N                |
| ASTM E10-18    | Metal and<br>related<br>products | Standard Test Method<br>for Brinell Hardness of<br>Metallic Materials                                                         | (100 ~ 300) HBW                                 | BS   | N                |
| ASTM E1049-85  | Metal and<br>related<br>products | Standard Practices for<br>Cycle Counting in<br>Fatigue Analysis                                                               | Max. 100 kN                                     | BS   | N                |
| ASTM E18-19    | Metal and<br>related<br>products | Standard Test Methods<br>for Rockwell Hardness<br>of Metallic Materials                                                       | HRA : 24 ~ 86<br>HRB : 26 ~ 95<br>HRC : 20 ~ 60 | BS   | N                |
| ASTM E190-14   | Metal and<br>related<br>products | Standard Test Method<br>for Guided Bend Test for<br>Ductility of Welds                                                        | Test load : Max.300 kN<br>Bending angle : 180 ° | BS   | N                |
| ASTM E21-20    | Metal and<br>related<br>products | Standard Test Methods<br>for Elevated<br>Temperature Tension<br>Tests of Metallic<br>Materials                                | Test load : Max. 300<br>kN                      | BS   | N                |
| ASTM E238-17a  | Metal and<br>related<br>products | Standard Test Method<br>for Pin-Type Bearing<br>Test of Metallic<br>Materials                                                 | (0 ~ 200) kN                                    | BS-2 | N                |
| ASTM E290-14   | Metal and<br>related<br>products | Standard Test Methods<br>for Bend Testing of<br>Material for Ductility                                                        | Test load : Max.300 kN<br>Bending angle : 180 ° | BS   | N                |
| ASTM E399-23   | Metal and<br>related<br>products | Standard Test Method<br>for Linear-Elastic Plane-<br>Strain Fracture<br>Toughness of Metallic<br>Materials                    | (0 ~ 100) kN                                    | BS-2 | N                |
| ASTM E466-15   | Metal and<br>related<br>products | Standard Practice for<br>Conducting Force<br>Controlled Constant<br>Amplitude Axial Fatigue<br>Tests of Metallic<br>Materials | Max. 1.0 MN                                     | BS   | N                |

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| Test method             | Materials/<br>Products           | Standard<br>designation                                                                                                                                                        | Test range                                             | Site | Field<br>testing |
|-------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------|------------------|
| ASTM E466-21            | Metal and<br>related<br>products | Standard Test Method<br>for conducting force<br>controlled constant<br>amplitude axial fatigue<br>tests of metallic<br>materials                                               | (0 ~ 200) kN                                           | BS-2 | N                |
| ASTM<br>E606/E606M-19e1 | Metal and<br>related<br>products | Standard Test Method<br>for Strain-Controlled<br>Fatigue Testing                                                                                                               | Max. 1.0 MN                                            | BS   | N                |
| ASTM<br>E606/E606M-21   | Metal and<br>related<br>products | Standard test method<br>for strain-controlled<br>fatigue testing                                                                                                               | (0 ~ 250) kN                                           | BS-2 | N                |
| ASTM E647-23            | Metal and<br>related<br>products | Standard Test Method<br>for Measurement of<br>Fatigue Crack Growth<br>Rates                                                                                                    | (0 ~ 100) kN                                           | BS-2 | N                |
| ASTM E739-10            | Metal and<br>related<br>products | Standard Practice for<br>Statistical Analysis of<br>Linear or Linearized<br>Stress-Life (S-N) and<br>Strain-Life (ε-N) Fatigue<br>Data                                         | Max. 100 kN                                            | BS   | N                |
| ASTM E8/E8M-<br>16a     | Metal and<br>related<br>products | Standard Test Methods<br>for Tension Testing of<br>Metallic Materials                                                                                                          | Max. 1.0 MN                                            | BS   | N                |
| ASTM E8/E8M-24          | Metal and<br>related<br>products | Standard test methods<br>for tension testing of<br>metallic materials                                                                                                          | (0 ~ 200) kN                                           | BS-2 | N                |
| ASTM E9-19              | Metal and<br>related<br>products | Standard Test Methods<br>of Compression Testing<br>of Metallic Materials at<br>Room Temperature                                                                                | (0 ~ 1 000) kN                                         | BS-2 | N                |
| ASTM E92-17             | Metal and<br>related<br>products | Standard Test Methods<br>for Vickers Hardness and<br>Knoop Hardness of<br>Metallic Materials                                                                                   | HV : 264 ~ 898<br>HK : 500 ~ 800                       | BS   | N                |
| ASTM F1717-21           | Metal and<br>related<br>products | Standard Test Methods<br>for Spinal Implant<br>Constructs in a<br>Vertebrectomy Model                                                                                          | Test load : Max. 10 kN<br>Test torque : Max. 100<br>Nm | BS   | N                |
| ASTM F1798-21           | Metal and<br>related<br>products | Standard Test Method<br>for Evaluating the Static<br>and Fatigue Properties<br>of Interconnection<br>Mechanisms and<br>Subassemblies Used in<br>Spinal Arthrodesis<br>Implants | Test load : Max. 10 kN<br>Test torque : Max. 100<br>Nm | BS   | N                |

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| Test method     | Materials/<br>Products           | Standard<br>designation                                                                                                                                                    | Test range                                                                      | Site | Field<br>testing |
|-----------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------|------------------|
| ASTM F2077-22   | Metal and<br>related<br>products | Test Methods For<br>Intervertebral Body<br>Fusion Devices                                                                                                                  | Test load : Max. 100<br>kN<br>Test torque : Max. 100<br>Nm                      | BS   | N                |
| ASTM F2267-22   | Metal and<br>related<br>products | Standard Test Method<br>for Measuring Load<br>Induced Subsidence of<br>Intervertebral Body<br>Fusion Device Under<br>Static Axial Compression                              | Test load : Max. 10 kN                                                          | BS   | N                |
| ISO 12189:2008  | Metal and<br>related<br>products | Implants for surgery —<br>Mechanical testing of<br>implantable spinal<br>devices — Fatigue test<br>method for spinal<br>implant assemblies<br>using an anterior<br>support | Test load : Max. 10 kN                                                          | BS   | N                |
| ISO 14801:2016  | Metal and<br>related<br>products | Dentistry -- Implants --<br>Dynamic loading test for<br>endosseous dental<br>implants                                                                                      | (0 ~ 10) kN                                                                     | BS   | N                |
| ISO 16573:2020  | Metal and<br>related<br>products | Steel-Measurement<br>method for the<br>evaluation of hydrogen<br>embrittlement resistance<br>of high strength steels                                                       | Thermal Desorption<br>Temperature : (400 ~<br>800) °C<br>Force : 250 kN or less | BS   | N                |
| ISO 6506-1:2014 | Metal and<br>related<br>products | Metallic materials -<br>Brinell hardness test -<br>Part 1 : Test method                                                                                                    | (100 ~ 300) HBW                                                                 | BS   | N                |
| ISO 6507-1:2018 | Metal and<br>related<br>products | Metallic materials -<br>Vickers hardness test -<br>Part 1 : Test method                                                                                                    | (220 ~ 800) HV                                                                  | BS   | N                |
| ISO 6508-1:2016 | Metal and<br>related<br>products | Metallic materials -<br>Rockwell hardness test -<br>Part 1 : Test method                                                                                                   | (60 ~ 100) HRB<br>(25 ~ 60) HRC                                                 | BS   | N                |
| ISO 6892-1:2016 | Metal and<br>related<br>products | Metallic material -<br>Tensile testing - Part 1 :<br>Method of test at room<br>Temperature                                                                                 | Max. 100 kN                                                                     | BS   | N                |
| ISO 7438:2016   | Metal and<br>related<br>products | Metallic materials - Bend<br>test                                                                                                                                          | Max.100 kN<br>Bending angle : 180 °                                             | BS   | N                |
| KS B 0802:2003  | Metal and<br>related<br>products | Method of tensile test<br>for metallic materials                                                                                                                           | (0 ~ 1 000) kN                                                                  | BS-2 | N                |
| KS B 0802:2003  | Metal and<br>related<br>products | Methods of tensile test<br>for metallic materials                                                                                                                          | Max. 1.0 MN                                                                     | BS   | N                |

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| Test method            | Materials/<br>Products           | Standard<br>designation                                                          | Test range                                      | Site | Field<br>testing |
|------------------------|----------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------|------|------------------|
| KS B 0804:2001         | Metal and<br>related<br>products | Metallic materials-Bend<br>test                                                  | Max. 100 kN<br>Bending angle : 180 °            | BS   | N                |
| KS B 0805:2000         | Metal and<br>related<br>products | Metallic materials - Test<br>method of brinell<br>hardness                       | (100 ~ 300) HBW                                 | BS   | N                |
| KS B 0806:2000         | Metal and<br>related<br>products | Metallic materials - Test<br>method of rockwell<br>hardness                      | HRA : 24 ~ 86<br>HRB : 26 ~ 95<br>HRC : 20 ~ 60 | BS   | N                |
| KS B 0811:2003         | Metal and<br>related<br>products | Metallic materials -<br>Vickers hardness test -<br>Part 1 : Test method          | (220 ~ 800) HV                                  | BS   | N                |
| KS P ISO<br>14801:2016 | Metal and<br>related<br>products | Dentistry-Implants-<br>Dynamic loading test for<br>endosseous dental<br>implants | (0 ~ 10) kN                                     | BS   | N                |

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## **01. Mechanical Testing**

### 01.003 Cement and Related Products

| Test method    | Materials/<br>Products            | Standard<br>designation                                                                 | Test range    | Site | Field<br>testing |
|----------------|-----------------------------------|-----------------------------------------------------------------------------------------|---------------|------|------------------|
| KS F 2730:2008 | Cement and<br>related<br>products | Testing method for<br>rebound number to<br>conclude compressive<br>strength of concrete | (15 ~ 45) MPa | BS-2 | Y                |

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## 01. Mechanical Testing

### 01.010 Plastics and Related Products

| Test method                 | Materials/<br>Products             | Standard<br>designation                                                                                                                                        | Test range   | Site | Field<br>testing |
|-----------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|------------------|
| ASTM D1002-10               | Plastic and<br>related<br>products | Standard Test Method<br>for Apparent Shear<br>Strength of Single-Lap-<br>Joint Adhesively Bonded<br>Metal Specimens by<br>Tension Loading (Metal-<br>to-Metal) | (0 ~ 200) kN | BS-2 | N                |
| ASTM<br>D2344/D2344M-<br>16 | Plastic and<br>related<br>products | Standard Test Method<br>for Short-Beam Strength<br>of Polymer Matrix<br>Composite Materials<br>and Their Laminates                                             | (0 ~ 300) kN | BS   | N                |
| ASTM<br>D2344/D2344M-<br>22 | Plastic and<br>related<br>products | Standard Test Method<br>for Short-Beam Strength<br>of Polymer Matrix<br>Composite Materials<br>and Their Laminates                                             | (0 ~ 200) kN | BS-2 | N                |
| ASTM<br>D3039/D3039M-<br>17 | Plastic and<br>related<br>products | Standard Test Method<br>for Tensile Properties of<br>Polymer Matrix<br>Composite Materials                                                                     | (0 ~ 200) kN | BS-2 | N                |
| ASTM<br>D3039/D3039M-<br>17 | Plastic and<br>related<br>products | Standard Test Method<br>for Tensile Properties of<br>Polymer Matrix<br>Composite Materials                                                                     | (0 ~ 300) kN | BS   | N                |
| ASTM D3165-07-<br>2023      | Plastic and<br>related<br>products | Standard Test Method<br>for Strength Properties<br>of Adhesives in Shear by<br>Tension Loading of<br>Single-Lap-Joint<br>Laminated Assemblies                  | (0 ~ 200) kN | BS-2 | N                |
| ASTM D3165-14               | Plastic and<br>related<br>products | Standard Test Method<br>for Strength Properties<br>of Adhesives in Shear by<br>Tension Loading of<br>Single-Lap-Joint<br>Laminated Assemblies                  | (0 ~ 300) kN | BS   | N                |
| ASTM D3171-22               | Plastic and<br>related<br>products | Standard Test Methods<br>for Constituent Content<br>of Composite Materials                                                                                     | (0 ~ 200) g  | BS-2 | N                |
| ASTM<br>D3479/D3479M-<br>19 | Plastic and<br>related<br>products | Standard Test Method<br>for Tension-Tension<br>Fatigue of Polymer<br>Matrix Composite<br>Materials                                                             | (0 ~ 300) kN | BS   | N                |



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| Test method                                     | Materials/<br>Products             | Standard<br>designation                                                                                                                            | Test range   | Site | Field<br>testing |
|-------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|------------------|
| ASTM<br>D3479/D3479M-<br>19(Reapproved<br>2023) | Plastic and<br>related<br>products | Standard Test Method<br>for Tension-Tension<br>Fatigue of Polymer<br>Matrix Composite<br>Materials                                                 | (0 ~ 200) kN | BS-2 | N                |
| ASTM<br>D3518/D3518M-<br>18                     | Plastic and<br>related<br>products | Standard Test Method<br>for In-Plane Shear<br>Response of Polymer<br>Matrix Composite<br>Materials by Tensile Test<br>of a $\pm 45^\circ$ Laminate | (0 ~ 200) kN | BS-2 | N                |
| ASTM<br>D3518/D3518M-<br>18                     | Plastic and<br>related<br>products | Standard Test Method<br>for In-Plane Shear<br>Response of Polymer<br>Matrix Composite<br>Materials by Tensile Test<br>of a $\pm 45^\circ$ Laminate | (0 ~ 300) kN | BS   | N                |
| ASTM D3846-<br>08(2015)                         | Plastic and<br>related<br>products | Standard Test Methods<br>for In-Plane Shear<br>Strength of Reinforced<br>Plastics                                                                  | (0 ~ 200) kN | BS-2 | N                |
| ASTM<br>D5379/D5379M-<br>19                     | Plastic and<br>related<br>products | Standard Test Method<br>for Shear Properties of<br>Composite Materials by<br>the V-Notched Beam<br>Method                                          | (0 ~ 200) kN | BS-2 | N                |
| ASTM<br>D5379/D5379M-<br>19                     | Plastic and<br>related<br>products | Standard Test Method<br>for Shear Properties of<br>Composite Materials by<br>the V-Notched Beam<br>Method                                          | (0 ~ 300) kN | BS   | N                |
| ASTM<br>D5766/D5766M-<br>11                     | Plastic and<br>related<br>products | Standard Test Method<br>for Open-Hole Tensile<br>Strength of Polymer<br>Matrix Composite<br>Laminates                                              | (0 ~ 300) kN | BS   | N                |
| ASTM<br>D5766/D5766M-<br>23                     | Plastic and<br>related<br>products | Standard Test Method<br>for Open-Hole Tensile<br>Strength of Polymer<br>Matrix Composite<br>Laminates                                              | (0 ~ 200) kN | BS-2 | N                |
| ASTM<br>D5961/D5961M-<br>17                     | Plastic and<br>related<br>products | Standard Test Method<br>for Bearing Response of<br>Polymer Matrix<br>Composite Laminates                                                           | (0 ~ 300) kN | BS   | N                |
| ASTM<br>D5961/D5961M-<br>23                     | Plastic and<br>related<br>products | Standard Test Method<br>for Bearing Response of<br>Polymer Matrix<br>Composite Laminates                                                           | (0 ~ 200) kN | BS-2 | N                |



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| Test method                 | Materials/<br>Products             | Standard<br>designation                                                                                                                                            | Test range   | Site | Field<br>testing |
|-----------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|------------------|
| ASTM D638-14                | Plastic and<br>related<br>products | Standard Test Method<br>for Tensile Properties of<br>Plastics                                                                                                      | (0 ~ 300) kN | BS   | N                |
| ASTM<br>D6415/D6415M-<br>22 | Plastic and<br>related<br>products | Standard Test Method<br>for Measuring the<br>Curved Beam Strength<br>of a Fiber-Reinforced<br>Polymer-Matrix<br>Composite                                          | (0 ~ 200) kN | BS-2 | N                |
| ASTM<br>D6484/D6484M-<br>14 | Plastic and<br>related<br>products | Standard Test Method<br>for Open-Hole<br>Compressive Strength of<br>Polymer Matrix<br>Composite Laminates                                                          | (0 ~ 300) kN | BS   | N                |
| ASTM<br>D6484/D6484M-<br>23 | Plastic and<br>related<br>products | Standard Test Method<br>for Open-Hole<br>Compressive Strength of<br>Polymer Matrix<br>Composite Laminates                                                          | (0 ~ 200) kN | BS-2 | N                |
| ASTM<br>D6641/D6641M-<br>16 | Plastic and<br>related<br>products | Standard Test Method<br>for Compressive<br>Properties of Polymer<br>Matrix Composite<br>Materials Using a<br>Combined Loading<br>Compression(CLC) Test<br>Fixture  | (0 ~ 300) kN | BS   | N                |
| ASTM<br>D6641/D6641M-<br>23 | Plastic and<br>related<br>products | Standard Test Method<br>for Compressive<br>Properties of Polymer<br>Matrix Composite<br>Materials Using a<br>Combined Loading<br>Compression (CLC) Test<br>Fixture | (0 ~ 200) kN | BS-2 | N                |
| ASTM<br>D6742/D6742M-<br>17 | Plastic and<br>related<br>products | Standard Practice for<br>Filled-Hole Tension and<br>Compression Testing of<br>Polymer Matrix<br>Composite Laminates                                                | (0 ~ 300) kN | BS   | N                |
| ASTM<br>D6742/D6742M-<br>23 | Plastic and<br>related<br>products | Standard Practice for<br>Filled-Hole Tension and<br>Compression Testing of<br>Polymer Matrix<br>Composite Laminates                                                | (0 ~ 200) kN | BS-2 | N                |
| ASTM D695-15                | Plastic and<br>related<br>products | Standard Test Method<br>for Compressive<br>Properties of Rigid<br>Plastics                                                                                         | (0 ~ 300) kN | BS   | N                |

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| Test method                           | Materials/<br>Products             | Standard<br>designation                                                                                                                                         | Test range                      | Site | Field<br>testing |
|---------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------|------------------|
| ASTM D695-23                          | Plastic and<br>related<br>products | Standard Test Method<br>for Compressive<br>Properties of Rigid<br>Plastics                                                                                      | (0 ~ 200) kN                    | BS-2 | N                |
| ASTM D7028-<br>07(Reapproved<br>2024) | Plastic and<br>related<br>products | Standard Test Method<br>for Glass Transition<br>Temperature (DMA T <sub>g</sub> )<br>of Polymer Matrix<br>Composites by Dynamic<br>Mechanical Analysis<br>(DMA) | (Room temperature ~<br>450) °C  | BS-2 | N                |
| ASTM<br>D7078/D7078M-<br>20ε1         | Plastic and<br>related<br>products | Standard Test Method<br>for Shear Properties of<br>Composite Materials by<br>V-Notched Rail Shear<br>Method                                                     | (0 ~ 200) kN                    | BS-2 | N                |
| ASTM<br>D7136/D7136M-<br>15           | Plastic and<br>related<br>products | Standard Test Method<br>for Measuring the<br>Damage Resistance of a<br>Fiber-Reinforced<br>Polymer Matrix<br>Composite to a Drop-<br>Weight Impact Event        | (1 ~ 1 800) J                   | BS   | N                |
| ASTM<br>D7136/D7136M-<br>20           | Plastic and<br>related<br>products | Standard Test Method<br>for Measuring the<br>Damage Resistance of a<br>Fiber-Reinforced<br>Polymer Matrix<br>Composite to a Drop-<br>Weight Impact Event        | (0 ~ 200) kN,<br>(3 ~ 300) J    | BS-2 | N                |
| ASTM<br>D7137/D7137M-<br>17           | Plastic and<br>related<br>products | Standard Test Method<br>for Compressive<br>Residual Strength<br>Properties of Damaged<br>Polymer Matrix<br>Composite Plates                                     | (0 ~ 1 000) kN<br>(1 ~ 1 800) J | BS   | N                |
| ASTM<br>D7137/D7137M-<br>23           | Plastic and<br>related<br>products | Standard Test Method<br>for Compressive<br>Residual Strength<br>Properties of Damaged<br>Polymer Matrix<br>Composite Plates                                     | (0 ~ 200) kN, (3 ~ 300)<br>J    | BS-2 | N                |
| ASTM D7264-15                         | Plastic and<br>related<br>products | Standard Test Method<br>for Flexural Properties of<br>Polymer Matrix<br>Composite Materials                                                                     | (0 ~ 300) kN                    | BS   | N                |
| ASTM D790-17                          | Plastic and<br>related<br>products | Standard Test Methods<br>for Flexural Properties of<br>Un-reinforced and<br>Reinforced Plastics and<br>Electrical Insulating<br>Materials                       | (0 ~ 300) kN                    | BS   | N                |

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| Test method         | Materials/<br>Products             | Standard<br>designation                                                                                                                  | Test range   | Site | Field<br>testing |
|---------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|------------------|
| ASTM D790-17        | Plastic and<br>related<br>products | Standard Test Methods<br>for Flexural Properties of<br>Unreinforced and<br>Reinforced Plastics and<br>Electrical Insulating<br>Materials | (0 ~ 200) kN | BS-2 | N                |
| ASTM D792-20        | Plastic and<br>related<br>products | Standard Test Methods<br>for Density and Specific<br>Gravity (Relative<br>Density) of Plastics by<br>Displacement                        | (0 ~ 200) g  | BS-2 | N                |
| SACMA SRM 1R-<br>94 | Plastic and<br>related<br>products | Recommended Test<br>Method for Compressive<br>Properties of Oriented<br>Fiber-Resin Composites                                           | (0 ~ 300) kN | BS   | N                |

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## 01. Mechanical Testing

### 01.014 Measuring machines and tools

| Test method    | Materials/<br>Products             | Standard<br>designation                                                               | Test range                            | Site | Field<br>testing |
|----------------|------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------|------|------------------|
| KS I 8001:2009 | Measuring<br>machines and<br>tools | General rules for<br>electrical conductivity<br>measuring method                      | (0.5 ~ 1 000) mS/m                    | BS   | N                |
| KS I 8001:2009 | Measuring<br>machines and<br>tools | General rules for<br>measuring conductivity<br>Subclause 8.1                          | (0.05 ~ 10 000) $\mu$ S/cm<br>(25 °C) | BS-2 | N                |
| KS M 0011:2013 | Measuring<br>machines and<br>tools | Methods for<br>determination of pH of<br>aqueous solution                             | (4 ~ 10) pH                           | BS   | N                |
| KS M 0011:2013 | Measuring<br>machines and<br>tools | Methods for<br>determination of pH of<br>aqueous solutions<br>Subclause 7.1, Clause 8 | (4 ~ 10) pH (25 °C)                   | BS-2 | N                |

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## 01. Mechanical Testing

### 01.015 Industrial Machinery

| Test method                         | Materials/<br>Products         | Standard<br>designation                                                                                                                                                                                                                                                                  | Test range                                                                             | Site | Field<br>testing |
|-------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------|------------------|
| KS B ISO 10218-1:2011               | Industrial robots              | Robots and robotic devices - Safety requirements for industrial robots - Part 1 : Robots<br><br>5.6.2 Reduced speed control operation                                                                                                                                                    | speed : 250 mm/s or less                                                               | BS-2 | Y                |
| KS B ISO 230-2:2014                 | Machine tools                  | Test code for machine tools — Part 2: Determination of accuracy and repeatability of positioning of numerically controlled axes<br><br>5.3.2 Linear axes up to 2 000 mm                                                                                                                  | (0 ~ 2 000) mm                                                                         | BS-2 | Y                |
| KS B ISO 9283:1998                  | Manipulating industrial robots | Manipulating industrial robots — Performance criteria and related test methods<br><br>7.2 Pose accuracy and pose repeatability<br>7.3 Distance accuracy and repeatability                                                                                                                | Measurement range : (0.3 ~ 10) m<br>Horizontal (vertical) measuring angle : -45° ~ 45° | BS-2 | N                |
| MOIS Notice No.2019-32(04.04.2019.) | Industrial machinery           | Safety Standard for elevator safety components and elevators<br>Appendix 12 Buffers safety standard (KC 1030-11 : 2019)<br><Exception><br>5.1.1 Buffers with non linear characteristics<br>5.1.2 Buffers with linear characteristics<br>6.3 Safety tests for energy accumulation buffers | Speed : 5.0 m/s or less<br>Weight: (200 ~ 6 800) kg                                    | BS-2 | N                |

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| Test method                                | Materials/<br>Products  | Standard<br>designation                                                                                                                                                                                                                                                                                             | Test range                                             | Site | Field<br>testing |
|--------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------|------------------|
| MOIS Notice<br>No.2019-<br>32(04.04.2019.) | Industrial<br>machinery | Safety Standard for<br>elevator safety<br>components and<br>elevators<br>Appendix 5 Safety Gear<br>safety standard (KC<br>1030-04 : 2019)<br><Exception><br>5.2 instantaneous<br>safety gear                                                                                                                        | Speed : 5.0 m/s or less<br>Weight: (200 ~ 6 800)<br>kg | BS-2 | N                |
| MOIS Notice<br>No.2022-<br>18(02.03.2022.) | Industrial<br>machinery | Safety Standard for<br>elevator safety<br>components and<br>elevators<br>Appendix 12 Buffers<br>safety standard (KC<br>1030-11 : 2022)<br><Exception><br>5.1.1 Buffers with non<br>linear characteristics<br>5.1.2 Buffers with linear<br>characteristics<br>6.3 Safety tests for<br>energy accumulation<br>buffers | Speed : 5.0 m/s or less<br>Weight: (200 ~ 6 800)<br>kg | BS-2 | N                |
| MOIS Notice<br>No.2022-<br>18(02.03.2022.) | Industrial<br>machinery | Safety Standard for<br>elevator safety<br>components and<br>elevators<br>Appendix 5 Safety Gear<br>safety standard (KC<br>1030-04 : 2022)<br><Exception><br>5.2 instantaneous<br>safety gear                                                                                                                        | Speed : 5.0 m/s or less<br>Weight: (200 ~ 6 800)<br>kg | BS-2 | N                |

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## 01. Mechanical Testing

### 01.021 Automobiles and related products

| Test method                                | Materials/<br>Products                 | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                     | Test range                                                                                                                                                               | Site | Field<br>testing |
|--------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SAE J 826:2021                             | Automobiles<br>and related<br>products | Devices for Use in<br>Defining and Measuring<br>Vehicle Seating<br>Accommodation                                                                                                                                                                                                                                                                                                            | (0 ~ 1 000) mm<br>0° ~ 180°<br>(0 ~ 60 000) g                                                                                                                            | SF-3 | N                |
| Title 49 CFR PART<br>572 Subpart<br>O:2023 | Automobiles<br>and related<br>products | Title 49 - Transportation<br>Subtitle B - Other<br>Regulations Relating to<br>Transportation<br>Chapter V - National<br>Highway Traffic Safety<br>Administration<br>Department of<br>Transportation PART<br>572 -<br>ANTHROPOMORPHIC<br>TEST DEVICES<br>Subpart O - Hybrid III<br>5th Percentile Female<br>Test Dummy, Alpha<br>Version<br>§ 572.132 Head<br>assembly and test<br>procedure | (Head Drop)<br>Resultant Acceleration:<br>(500 ~ 3 000) m/s <sup>2</sup><br>Lateral Acceleration :<br>(0 ± 150) m/s <sup>2</sup><br>Unimodal Oscillation :<br>(0 ~ 10) % | BS-2 | N                |



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| Test method                                | Materials/<br>Products                 | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Site | Field<br>testing |
|--------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| Title 49 CFR PART<br>572 Subpart<br>O:2023 | Automobiles<br>and related<br>products | Title 49 - Transportation<br>Subtitle B - Other<br>Regulations Relating to<br>Transportation<br>Chapter V - National<br>Highway Traffic Safety<br>Administration<br>Department of<br>Transportation PART<br>572 -<br>ANTHROPOMORPHIC<br>TEST DEVICES<br>Subpart O - Hybrid III<br>5th Percentile Female<br>Test Dummy, Alpha<br>Version<br>§ 572.132 Head<br>assembly and test<br>procedure<br>§ 572.133 Neck<br>assembly and test<br>procedure<br>§ 572.134 Thorax<br>assembly and test<br>procedure<br>§ 572.135 Upper and<br>lower torso assemblies<br>and torso flexion test<br>procedure<br>§ 572.136 Knees and<br>knee impact test<br>procedure | (Head Drop)<br>Resultant Acceleration:<br>(500 ~ 3 000) m/s <sup>2</sup><br>Lateral Acceleration :<br>(0 ± 150) m/s <sup>2</sup><br>Unimodal Oscillation :<br>(0 ~ 10) %<br><br>(Neck Pendulum)<br>Acceleration : (10 ~<br>300) m/s <sup>2</sup><br>Rotation : (0 ~ 120)°<br>Moment : (0 ~ 100)<br>N·m<br>Velocity : (5.95 ~ 7.13)<br>m/s<br><br>(Thorax Impact)<br>Force : (2 380 ~ 4 600)<br>N<br>Displacement : (0 ~ 60)<br>mm<br>Velocity : (6.59 ~ 6.82)<br>m/s<br><br>(Torso Flexion)<br>Force : (0 ~ 390) N<br>Rotation : (0 ~ 45.5)°<br><br>(Knee Impact)<br>Force : (500 ~ 4 100) N<br>Velocity : (2.07 ~ 2.13)<br>m/s | SF-3 | N                |

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## 02. Chemical Testing

### 02.008 Other Material and Products

| Test method                              | Materials/<br>Products             | Standard<br>designation                                                                                                                                                                                         | Test range                | Site | Field<br>testing |
|------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------|------------------|
| IEC 62321-1<br>Ed.1.0:2013               | Other<br>materials and<br>products | Determination of certain<br>substances in electro<br>technical products<br>- Part 1 : Introduction<br>and overview                                                                                              | -                         | BS-2 | N                |
| IEC 62321-2<br>Ed.2.0:2021               | Other<br>materials and<br>products | Determination of certain<br>substances in electro<br>technical products<br>- Part 2 : Disassembly<br>disjointment and<br>mechanical sample<br>preparation                                                       | -                         | BS-2 | N                |
| IEC 62321-3-<br>1:2013                   | Other<br>materials and<br>products | Determination of certain<br>substances in electro<br>technical products<br>- Part 3-1 : Screening -<br>Lead mercury cadmium<br>total chromium and<br>total bromine using X-<br>ray fluorescence<br>spectrometry | Qualitative method        | BS-2 | N                |
| IEC 62321-3-2<br>Ed.1.0:2013             | Other<br>materials and<br>products | Determination of certain<br>substances in<br>electrotechnical<br>products<br>- Part 3-2 : Screening -<br>Total bromine in<br>polymers and electronics<br>by Combustion - Ion<br>Chromatography                  | Br : 30 mg/kg or more     | BS-2 | N                |
| IEC 62321-4<br>Ed.1.1:2013+AMD<br>1:2017 | Other<br>materials and<br>products | Determination of certain<br>substances in<br>electrotechnical<br>products - Part 4 :<br>Mercury in polymers,<br>metals and electronics<br>by CV-AAS, CV-AFS,<br>ICP-OES and ICP-MS                              | Hg : 0.5 mg/kg or<br>more | BS-2 | N                |
| IEC 62321-4<br>Ed.1.0:2013               | Other<br>materials and<br>products | Determination of certain<br>substances in electro<br>technical products<br>- Part 4 : Mercury in<br>polymers metals and<br>electronics by CV-AAS<br>CV-AFS ICP-OES and<br>ICP-MS                                | Hg : 0.5 mg/kg or<br>more | BS-2 | N                |

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| Test method                | Materials/<br>Products             | Standard<br>designation                                                                                                                                                                                                                                                  | Test range                                                                 | Site | Field<br>testing |
|----------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------|------------------|
| IEC 62321-5<br>Ed.1.0:2013 | Other<br>materials and<br>products | Determination of certain<br>substances in electro<br>technical products<br>- Part 5 : Cadmium lead<br>and chromium in<br>polymers and electronics<br>and cadmium and lead<br>in metals by AAS AFS<br>ICP-OES and ICP-MS                                                  | Pb : 6.0 mg/kg or more<br>Cd : 7.0 mg/kg or more<br>Cr : 5.0 mg/kg or more | BS-2 | N                |
| IEC 62321-6:2015           | Other<br>materials and<br>products | Determination of certain<br>substances in<br>electrotechnical<br>products<br>- Part 6 :<br>Polybrominated<br>biphenyls and<br>polybrominated<br>diphenyl ethers in<br>polymers by gas<br>chromatography-mass<br>spectrometry (GC-MS)                                     | PBBs : 5 mg/kg or more<br>PBDEs : 5 mg/kg or<br>more                       | BS-2 | N                |
| IEC 62321-7-<br>1:2015     | Other<br>materials and<br>products | Determination of certain<br>substances in<br>electrotechnical<br>products<br>- Part 7-1 : Hexavalent<br>chromium-Presence of<br>hexavalent<br>chromium_(Cr(VI)) in<br>colourless and coloured<br>corrosion-protected<br>coatings on metals by<br>the colorimetric method | Cr(VI) : 0.10 ug/cm2 or<br>more                                            | BS-2 | N                |
| IEC 62321-7-<br>2:2017     | Other<br>materials and<br>products | Determination of certain<br>substances in<br>electrotechnical<br>products<br>- Part 7-2 : Hexavalent<br>chromium-<br>Determination of<br>hexavalent chromium<br>(Cr(VI)) in polymers and<br>electronics by the<br>colorimetric method                                    | Cr(VI) : 8 mg/kg or<br>more                                                | BS-2 | N                |

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| Test method      | Materials/<br>Products             | Standard<br>designation                                                                                                                                                                                                                                                                       | Test range       | Site | Field<br>testing |
|------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|
| IEC 62321-8:2017 | Other<br>materials and<br>products | Determination of certain<br>substances in<br>electrotechnical<br>products<br>- Part 8 : Phthalates in<br>polymers by gas<br>chromatography-mass<br>spectrometry (GC-MS),<br>gas chromatography-<br>mass spectrometry using<br>a pyrolyzer/thermal<br>desorption<br>accessory(Py/TD-GC-<br>MS) | 50 mg/kg or more | BS-2 | N                |

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## 02. Chemical Testing

### 02.021 Water Quality

| Test method            | Materials/<br>Products | Standard<br>designation                                                                                                                                                              | Test range                                                                              | Site | Field<br>testing |
|------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------|------------------|
| KS I ISO 10304-1:2007  | Water quality          | Water quality-<br>Determination of dissolved anions by liquid chromatography of ions-<br>Part1:Determination of bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulfate | Chloride : 0.1 mg/L<br>Fluoride : 0.1 mg/L<br>Nitrate : 0.1 mg/L<br>Nitrite : 0.05 mg/L | BS-2 | N                |
| ME Notice No. 2022-247 | Water quality          | Guideline for hygienic safety of waterworks material & product<br>52 Amines                                                                                                          | (0.01 ~ 0.25) mg/L                                                                      | BS-2 | N                |

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| Test method                               | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Site | Field<br>testing |
|-------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ME Notice<br>No.2022-247<br>(19.12.2022.) | Water quality          | Guideline for hygienic<br>safety of waterworks<br>material & product<br>14. Fluoride<br>17. Nitrate-N&Nitrite-N<br>18. Chloride<br>22-2. Metals-Inductively<br>Coupled Plasma Atomic<br>Emission Spectrometry<br>22-3. Metals-Inductively<br>Coupled Plasma Mass<br>Spectrometry<br>28. Mercury<br>32. Hexa chromium<br>6. Potassium<br>permanganate<br>7. Odor<br>8. Taste<br>9. Color<br>10. Total solids<br>11. Turbidity<br>12. Alkyl benzene<br>sulfate<br>13. Free residual<br>chlorine loss<br>15. Phenols<br>16. Cyande<br>35. Volatile Organic<br>Compounds - Purge &<br>Trap/Gas<br>Chromatography /Mass<br>Spectrometry<br>53. 2,4-Toluenediamine<br>54. 2,6-Toluenediamine<br>55. Formaldehyde<br>33. Nickel | - 14. Fluoride: 0.02<br>mg/L or more<br>- 17. Nitrate-N&Nitrite-<br>N<br>Nitrate nitrogen 0.02<br>mg/L or more<br>Nitrite nitrogen 0.1<br>mg/L or more<br>- 18. Chloride : 0.4<br>mg/L or more<br>- 22-2. Metals-<br>Inductively Coupled<br>Plasma Atomic<br>Emission Spectrometry<br>Copper : 0.003 mg/L or<br>more<br>Manganese : 0.001<br>mg/L or more<br>Zinc : 0.001 mg/L or<br>more<br>Iron : 0.003 mg/L or<br>more<br>Sodium : 0.03 mg/L or<br>more<br>- 22-3. Metals-<br>Inductively Coupled<br>Plasma Mass<br>Spectrometry<br>Lead : 0.000 37 mg/L<br>or more<br>Arsenic : 0.002 9 mg/L<br>or more<br>Selenium : 0.000 49<br>mg/L or more<br>Cadmium : 0.000 36<br>mg/L or more<br>- 28. Mercury : 0.01<br>g/L or more<br>- 32. Hexa chromium :<br>0.000 3 mg/L or more<br>- 6. Potassium<br>permanganate : 0.3<br>mg/L or more<br>- 7. Odor : Pass, Fail<br>- 8. Taste : Pass, Fail<br>- 9. Color : 0.1 degree<br>or more<br>- 10. Total solids : (2.0<br>~ 2 000) mg/L<br>- 11. Turbidity : (0.2 ~<br>400) NTU<br>- 12. Alkyl benzene<br>sulfate : (0.01 ~ 1.0)<br>mg/L<br>- 13. Free residual<br>chlorine loss : -<br>- 15. Phenols : (0.2 ~<br>0.8) g/L<br>- 16. Cyande : (1 ~<br>100) g/L | BS-2 | N                |

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| Test method | Materials/<br>Products | Standard<br>designation | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Site | Field<br>testing |
|-------------|------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
|             |                        |                         | - 35. Volatile Organic<br>Compounds - Purge &<br>Trap/Gas<br>Chromatography /Mass<br>Spectrometry<br>Dichloromethane:<br>0.001 mg/L or more<br>1,1-dichloroethylene:<br>0.001 mg/L or more<br>Trichlorethylene: 0.001<br>mg/L or more<br>1,1,1-trichloroethane:<br>0.001 mg/L or more<br>Tetrachlorethylene: 0.4<br>g/L or more<br>Benzene : 0.4 g/L or<br>more<br>Cis-1-2-<br>dichloroethylene: 0.3<br>g/L or more<br>1,1,2-trichloroethane:<br>0.4 g/L or more<br>1,2-dichloroethane :<br>0.3 g/L or more<br>Epichlorohydrin: : 0.4<br>g/L or more<br>Vinyl acetate : 0.003 3<br>mg/L or more<br>Styrene : 0.5 g/L or<br>more<br>1,2-butadiene : 0.001<br>mg/L or more<br>1,3-butadiene : 0.7 g/L<br>or more<br>N, N-Dimethylaniline:<br>0.001 2 mg/L or more<br>Carbon tetrachloride:<br>0.2 g/L or more<br>- 53. 2,4-<br>Toluenediamine :<br>0.001 mg/L or more<br>- 54. 2,6-<br>Toluenediamine : 0.9<br>g/L or more<br>- 55. Formaldehyde :<br>0.006 2 mg/L or more<br>- 33. Nickel : 0.000 7<br>mg/L or more |      |                  |



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## 02. Chemical Testing

### 02.025 Indoor and other environments

| Test method                     | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                       | Test range                              | Site | Field<br>testing |
|---------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------|------------------|
| ISO 12219-2:2012                | Indoor and<br>other<br>environments | Interior air of road<br>vehicles - Part 2 :<br>Screening method for<br>the determination of the<br>emissions of volatile<br>organic compounds<br>from vehicle interior<br>parts and materials -<br>Bag method | (0.01~300 000) $\mu\text{g}/\text{m}^3$ | BS-1 | N                |
| ISO 12219-4:2013                | Indoor and<br>other<br>environments | Interior air of road<br>vehicles - Part 4 :<br>Method for the<br>determination of the<br>emissions of volatile<br>organic compounds<br>from vehicle interior<br>parts and materials -<br>Small chamber method | (0.01~300 000) $\mu\text{g}/\text{m}^3$ | BS-1 | N                |
| ISO 16000-<br>23:2018           | Indoor and<br>other<br>environments | Indoor air - Part 23 :<br>Performance test for<br>evaluating the reduction<br>of formaldehyde and<br>other carbonyl<br>compounds<br>concentrations by<br>sorptive building<br>materials                       | (1~2 000) $\mu\text{g}/\text{m}^3$      | BS-1 | N                |
| ISO 16000-<br>24:2018           | Indoor and<br>other<br>environments | Indoor air - Part 24 :<br>Performance test for<br>evaluating the reduction<br>of volatile organic<br>compound<br>concentrations by<br>sorptive building<br>materials                                          | (1~2 000) $\mu\text{g}/\text{m}^3$      | BS-1 | N                |
| ISO<br>24353:2008/AMD<br>1:2021 | Indoor and<br>other<br>environments | Hygrothermal<br>performance of building<br>materials and products -<br>Determination of<br>moisture<br>adsorption/desorption<br>properties in response to<br>humidity variation —<br>Amendment 1              | (0 ~ 400) $\text{g}/\text{m}^2$         | BS-1 | N                |

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| Test method            | Materials/<br>Products        | Standard<br>designation                                                                                                                                              | Test range                                             | Site | Field<br>testing |
|------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------|------------------|
| ISO/IEC 28360-1:2021   | Indoor and other environments | Information technology<br>- Determination of chemical emission rates from electronic equipment<br>- Part 1: Using-consumables                                        | (0.001~500) mg/h<br>[O3] > 0.6 mg/h<br>[PM] > 0.5 mg/h | BS-1 | N                |
| ISO/IEC 28360-2:2018   | Indoor and other environments | Information technology<br>- Office equipment - Determination of chemical emission rates from electronic equipment<br>- Part 2: Not using-consumables                 | (0.001~500) mg/h<br>[O3] > 0.6 mg/h                    | BS-1 | N                |
| KS F 2611:2019         | Indoor and other environments | Hygrothermal performance of building materials and products - Determination of moisture adsorption/desorption properties in response to humidity variation           | (0 ~ 400) g/m <sup>2</sup>                             | BS-1 | N                |
| KS I 2007:2022         | Indoor and other environments | Determination of the emission of formaldehyde and volatile organic compounds from furniture and building products - Large chamber method                             | (0.001 ~ 500) mg/h                                     | BS-1 | N                |
| KS I 3546:2022         | Indoor and other environments | Performance test methods for evaluating the reduction of volatile organic compound and aldehyde by building material - Solid phase building material                 | (1 ~ 2 000) µg/m <sup>3</sup>                          | BS-1 | N                |
| KS I 3547:2022         | Indoor and other environments | Performance test methods for evaluating the reduction of volatile organic compound and aldehyde concentrations by building material - Liquid phase building material | (1 ~ 2 000) µg/m <sup>3</sup>                          | BS-1 | N                |
| KS I ISO 16000-11:2006 | Indoor and other environments | Indoor air-Part 11 : Determination of the emission of volatile organic compounds-Sampling, storage of samples and preparation of test specimens                      | -                                                      | BS-1 | N                |

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| Test method               | Materials/<br>Products        | Standard<br>designation                                                                                                                                                                              | Test range                                                                                               | Site | Field<br>testing |
|---------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------|------------------|
| KS I ISO 16000-1:2004     | Indoor and other environments | Indoor air-Part 1 : General aspects of sampling strategy                                                                                                                                             | -                                                                                                        | BS-1 | N                |
| KS I ISO 16000-2:2004     | Indoor and other environments | Indoor air-Part 2 : Sampling strategy for formaldehyde                                                                                                                                               | -                                                                                                        | BS-1 | N                |
| KS I ISO 16000-3:2011     | Indoor and other environments | Indoor air-Part 3 : Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air - Active sampling method                                                           | (0.01 ~ 5 000) $\mu\text{g}/\text{m}^3$                                                                  | BS-1 | N                |
| KS I ISO 16000-6:2011     | Indoor and other environments | Indoor air-Part 6 : Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA® sorbent, thermal desorption and gas chromatography using MS or MS/FID | (0.01 ~ 300 000) $\mu\text{g}/\text{m}^3$                                                                | BS-1 | N                |
| KS I ISO 16000-9:2006     | Indoor and other environments | Indoor air-Part 9 : Determination of the emission of volatile organic compounds from building products and furnishing - Emission test chamber method                                                 | (0.000 5 ~ 20) $\text{mg}/(\text{m}^3 \cdot \text{h})$                                                   | BS-1 | N                |
| KS M 1998:2022            | Indoor and other environments | Determination of the emission rate of formaldehyde and volatile organic compounds in building interior products                                                                                      | (0.000 5 ~ 20) $\text{mg}/(\text{m}^3 \cdot \text{h})$                                                   | BS-1 | N                |
| KS X ISO/IEC 28360-1:2018 | Indoor and other environments | Information technology - Office equipment - Determination of chemical emission rates from electronic equipment - Part 1: Using-consumables                                                           | (0.001 ~ 500) $\text{mg}/\text{h}$<br>[O3] > 0.6 $\text{mg}/\text{h}$<br>[PM] > 0.5 $\text{mg}/\text{h}$ | BS-1 | N                |
| KS X ISO/IEC 28360-2:2018 | Indoor and other environments | Information technology - Office equipment - Determination of chemical emission rates from electronic equipment - Part 2: Not using-consumables                                                       | (0.001 ~ 500) $\text{mg}/\text{h}$<br>[O3] > 0.6 $\text{mg}/\text{h}$                                    | BS-1 | N                |

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| Test method                                | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test range                                                                                                             | Site | Field<br>testing |
|--------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------|------------------|
| NIER Notice<br>No.2022-<br>37(07.25.2022.) | Indoor and<br>other<br>environments | Test methods for the<br>examination of<br>unintentional persistent<br>organic pollutants - ES<br>10902.1b Official<br>Method of<br>Unintentionally<br>Produced Persistent<br>Organic Pollutants<br>(UPOPs) in stationary<br>Source Emissions by<br>HRGC/HRMS                                                                                                                                                                                                                                                                                                                                                               | 1 pg/m <sup>3</sup> 이상                                                                                                 | BS-1 | N                |
| NIER Notice<br>No.2023-<br>75(12.15.2023.) | Indoor and<br>other<br>environments | Test methods for the<br>examination of air<br>pollutants<br>- ES 01801.1<br>Benzo(a)pyrene in<br>Ambient - Gas<br>Chromatography<br>- ES 01802.1a Polycyclic<br>Aromatic Hydrocarbons<br>in Ambient Air-Gas<br>Chromatography/Mass<br>Spectrometry                                                                                                                                                                                                                                                                                                                                                                         | (0.1 ~ 10) ng/m <sup>3</sup><br>(0.1 ~ 200) ng/m <sup>3</sup>                                                          | BS-1 | N                |
| NIER Notice<br>No.2024-<br>20(02.27.2024.) | Indoor and<br>other<br>environments | Test methods for the<br>examination of indoor<br>air quality<br>- ES 02131.1g<br>Determination of<br>emission of volatile<br>organic compounds and<br>formaldehyde from<br>building materials by<br>small-scale emission test<br>chamber method<br>- ES 02601.1e<br>Determination of<br>formaldehyde in indoor<br>and emitted from<br>building materials by<br>2,4-DNPH cartridge and<br>high performance liquid<br>chromatograph<br>- ES 02602.1f<br>Determination of<br>volatile organic<br>compounds in indoor<br>and emitted from<br>building materials by<br>sorbent tube and gas<br>chromatograph using<br>MS or FID | (0.000 5 ~ 20) mg/(m <sup>3</sup><br>· h)<br>(0.01 ~ 5 000) µg/m <sup>3</sup><br>(0.01 ~ 300 000)<br>µg/m <sup>3</sup> | BS-1 | N                |

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## 03. Electrical Testing

### 03.001 Electric cords, cables and circuits

| Test method      | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                 | Test range           | Site | Field<br>testing |
|------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|------------------|
| IEC 60227-1:2007 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 1 : General<br>requirements                                                      | AC 450/750 V or less | BS   | N                |
| IEC 60227-2:2003 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 2 : Test methods                                                                 | AC 450/750 V or less | BS   | N                |
| IEC 60227-3:1997 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 3 : Non-sheathed<br>cables for fixed wiring                                      | AC 450/750 V or less | BS   | N                |
| IEC 60227-4:1997 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 4 : Sheathed cables<br>for fixed wiring                                          | AC 450/750 V or less | BS   | N                |
| IEC 60227-5:2011 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 5 : Flexible cables<br>(cords)                                                   | AC 450/750 V or less | BS   | N                |
| IEC 60227-6:2001 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 6 : Lift cables and<br>cables for flexible<br>connections                        | AC 450/750 V or less | BS   | N                |
| IEC 60227-7:2012 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 7 : Flexible cables<br>screened and<br>unscreened with two or<br>more conductors | AC 450/750 V or less | BS   | N                |
| IEC 60228:2004   | Electric cords,<br>cables and<br>circuits | Conductors of insulated<br>cables                                                                                                                                                       | AC 450/750 V or less | BS   | N                |

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| Test method            | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                              | Test range           | Site | Field<br>testing |
|------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|------------------|
| IEC 60245-1:2008       | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 1 : General<br>requirements                                                                                                   | AC 450/750 V or less | BS   | N                |
| IEC 60245-2:1998       | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 2 : Test methods                                                                                                              | AC 450/750 V or less | BS   | N                |
| IEC 60245-3:2011       | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 3 : Heat<br>resistant silicone<br>insulated cables                                                                            | AC 450/750 V or less | BS   | N                |
| IEC 60245-4:2011       | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 4 : Cords and<br>flexible cables                                                                                              | AC 450/750 V or less | BS   | N                |
| IEC 60245-8:2012       | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 8 : Cords for<br>applications requiring<br>high flexibility                                                                   | AC 450/750 V or less | BS   | N                |
| IEC 60332-1-<br>2:2015 | Electric cords,<br>cables and<br>circuits | Tests on electric and<br>optical fibre cables<br>under fire conditions -<br>Part 1-2 : Test for<br>vertical flame<br>propagation for a single<br>insulated wire or cable -<br>Procedure for 1 kW pre-<br>mixed flame | AC 450/750 V or less | BS   | N                |
| IEC 60332-2-<br>2:2004 | Electric cords,<br>cables and<br>circuits | Tests on electric and<br>optical fibre cables<br>under fire conditions -<br>Part 2-2 : Test for<br>vertical flame<br>propagation for a single<br>small insulated wire or<br>cable - Procedure for<br>diffusion flame | AC 450/750 V or less | BS   | N                |
| KC 10028:2016          | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Cross-linked silicone<br>rubber insulated multi-<br>core cable                                                                     | AC 450/750 V or less | BS   | N                |

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| Test method     | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                 | Test range                    | Site | Field<br>testing |
|-----------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------|------------------|
| KC 60227-1:2015 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 1 : General<br>requirements                                                      | AC 450/750 V or less          | BS   | N                |
| KC 60227-2:2015 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 2 : Test methods                                                                 | AC 450/750 V or less          | BS   | N                |
| KC 60227-3:2015 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 3 : Non-sheathed<br>cables for fixed wiring                                      | AC 450/750 V or less          | BS   | N                |
| KC 60227-4:2015 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 4 : Sheathed cables<br>for fixed wiring                                          | AC 450/750 V or less          | BS   | N                |
| KC 60227-5:2015 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 5 : Flexible cables<br>(cords)                                                   | AC 450/750 V or less          | BS   | N                |
| KC 60227-6:2015 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 6 : Lift cables and<br>cables for flexible<br>connections                        | AC 450/750 V or less          | BS   | N                |
| KC 60227-7:2015 | Electric cords,<br>cables and<br>circuits | Polyvinyl chloride<br>insulated cables of rated<br>voltages up to and<br>including 450/750 V -<br>Part 7 : Flexible cables<br>screened and<br>unscreened with two or<br>more conductors | AC 450/750 V or less          | BS   | N                |
| KC 60228:2015   | Electric cords,<br>cables and<br>circuits | Conductors of insulated<br>cables                                                                                                                                                       | (0.5 ~ 2 500) mm <sup>2</sup> | BS   | N                |
| KC 60245-1:2015 | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 1 : General<br>requirements                                                                      | AC 450/750 V or less          | BS   | N                |



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| Test method     | Materials/<br>Products                    | Standard<br>designation                                                                                                                                           | Test range           | Site | Field<br>testing |
|-----------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|------------------|
| KC 60245-2:2015 | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 2 : Test methods                                                           | AC 450/750 V or less | BS   | N                |
| KC 60245-3:2015 | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 3 : Heat<br>resistant silicone<br>insulated cables                         | AC 450/750 V or less | BS   | N                |
| KC 60245-4:2015 | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 4 : Cords and<br>flexible cables                                           | AC 450/750 V or less | BS   | N                |
| KC 60245-5:2015 | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 5 : Lift cables                                                            | AC 450/750 V or less | BS   | N                |
| KC 60245-6:2015 | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 6 : Arc welding<br>electrode cables                                        | AC 450/750 V or less | BS   | N                |
| KC 60245-7:2015 | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 7 : Heat<br>resistant ethylene-vinyl<br>acetate rubber insulated<br>cables | AC 450/750 V or less | BS   | N                |
| KC 60245-8:2015 | Electric cords,<br>cables and<br>circuits | Rubber insulated cables<br>- Rated voltages up to<br>and including 450/750<br>V - Part 8 : Cords for<br>applications requiring<br>high flexibility                | AC 450/750 V or less | BS   | N                |
| KC 60332-1:2015 | Electric cords,<br>cables and<br>circuits | Tests on electric cables<br>under fire<br>conditions - Part 1 : Test<br>on a single vertical<br>insulated wire or cable                                           | AC 450/750 V or less | BS   | N                |
| KC 60799:2015   | Electric cords,<br>cables and<br>circuits | Electrical accessories -<br>Cord sets and<br>interconnection cord<br>sets                                                                                         | AC 1 000 V or less   | BS   | N                |

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| Test method           | Materials/<br>Products              | Standard<br>designation                                                                                                                                            | Test range           | Site | Field<br>testing |
|-----------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|------------------|
| KS C IEC 60227-1:2019 | Electric cords, cables and circuits | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 1 : General requirements                                                | AC 450/750 V or less | BS   | N                |
| KS C IEC 60227-2:2021 | Electric cords, cables and circuits | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 2 : Test methods                                                        | AC 450/750 V or less | BS   | N                |
| KS C IEC 60227-3:2020 | Electric cords, cables and circuits | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 3 : Non-sheathed cables for fixed wiring                                | AC 450/750 V or less | BS   | N                |
| KS C IEC 60227-4:2020 | Electric cords, cables and circuits | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 4 : Sheathed cables for fixed wiring                                    | AC 450/750 V or less | BS   | N                |
| KS C IEC 60227-5:2021 | Electric cords, cables and circuits | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 5 : Flexible cables (cords)                                             | AC 450/750 V or less | BS   | N                |
| KS C IEC 60227-6:2020 | Electric cords, cables and circuits | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 6 : Lift cables and cables for flexible connections                     | AC 450/750 V or less | BS   | N                |
| KS C IEC 60227-7:2020 | Electric cords, cables and circuits | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 7 : Flexible cables screened and unscreened with two or more conductors | AC 450/750 V or less | BS   | N                |
| KS C IEC 60245-1:2019 | Electric cords, cables and circuits | Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 1 : General requirements                                                             | AC 450/750 V or less | BS   | N                |

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| Test method             | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                     | Test range           | Site | Field<br>testing |
|-------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|------------------|
| KS C IEC 60245-2:2021   | Electric cords, cables and circuits | Rubber insulated cables<br>- Rated voltages up to and including 450/750 V - Part 2 : Test methods                                                                                           | AC 450/750 V or less | BS   | N                |
| KS C IEC 60245-3:2018   | Electric cords, cables and circuits | Rubber insulated cables<br>- Rated voltages up to and including 450/750 V - Part 3 : Heat resistant silicone insulated cables                                                               | AC 450/750 V or less | BS   | N                |
| KS C IEC 60245-4:2019   | Electric cords, cables and circuits | Rubber insulated cables<br>- Rated voltages up to and including 450/750 V - Part 4 : Cords and flexible cables                                                                              | AC 450/750 V or less | BS   | N                |
| KS C IEC 60245-5:2018   | Electric cords, cables and circuits | Rubber insulated cables<br>- Rated voltages up to and including 450/750 V - Part 5 : Lift cables                                                                                            | AC 450/750 V or less | BS   | N                |
| KS C IEC 60245-8:2019   | Electric cords, cables and circuits | Rubber insulated cables<br>- Rated voltages up to and including 450/750 V - Part 8 : Cords for applications requiring high flexibility                                                      | AC 450/750 V or less | BS   | N                |
| KS C IEC 60332-1-2:2020 | Electric cords, cables and circuits | Tests on electric and optical fibre cables under fire conditions - Part 1-2 : Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame | AC 450/750 V or less | BS   | N                |
| KS C IEC 60799:2017     | Electric cords, cables and circuits | Electrical accessories - Cord sets and interconnection cord sets                                                                                                                            | 1 000 V or less      | BS   | N                |

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## 03. Electrical Testing

### 03.004 Electrical materials and components

| Test method                        | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                         | Test range              | Site | Field<br>testing |
|------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------|------------------|
| CEI 23-50:2007                     | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes General<br>requirements                                                                                                                       | AC 250 V / 16 A or less | BS   | N                |
| CEI EN<br>50075:1998(CEI<br>23-34) | Electrical<br>materials and<br>components | Non-rewirable two-pole<br>plugs 2.5 A 250 V, with<br>cord, for the connection<br>of class II equipment for<br>household and similar<br>purposes                                                                 | AC 250 V / 16 A or less | BS   | N                |
| IEC 60320-1:2021                   | Electrical<br>materials and<br>components | Appliance couplers for<br>household and similar<br>general purposes - Part<br>1 : General<br>requirements                                                                                                       | AC 250 V/ 16 A or less  | BS   | N                |
| IEC 60320-2-<br>1:2018             | Electrical<br>materials and<br>components | Appliance couplers for<br>household and similar<br>general purposes - Part<br>2-1 : Sewing machine<br>couplers                                                                                                  | AC 250 V/ 16 A or less  | BS   | N                |
| IEC 60384-<br>14:2016              | Electrical<br>materials and<br>components | Fixed capacitors for use<br>in electronic equipment<br>- Part 14 : Sectional<br>specification : Fixed<br>capacitors for<br>electromagnetic<br>interference suppression<br>and connection to the<br>supply mains | AC 500 V or less        | BS   | N                |
| IEC 60384-1:2021                   | Electrical<br>materials and<br>components | Fixed capacitors for use<br>in electronic equipment<br>- Part1 : Generic<br>specification                                                                                                                       | AC 500 V or less        | BS   | N                |
| IEC 60730-1:2020                   | Electrical<br>materials and<br>components | Automatic electrical<br>controls - Part 1 :<br>General Requirements                                                                                                                                             | AC 450 V / 30 A or less | BS   | N                |
| IEC 60730-1:2022                   | Electrical<br>materials and<br>components | Automatic electrical<br>controls - Part 1 :<br>General Requirements                                                                                                                                             | AC 450 V / 30 A or less | BS   | N                |
| IEC 60730-2-<br>9:2020             | Electrical<br>materials and<br>components | Automatic electrical<br>controls - Part 2-9:<br>Particular requirements<br>for temperature sensing<br>controls                                                                                                  | AC 450 V / 30 A or less | BS   | N                |

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| Test method            | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                             | Test range              | Site | Field<br>testing |
|------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------|------------------|
| IEC 60799:2018         | Electrical<br>materials and<br>components | Electrical accessories -<br>Cord sets and<br>interconnection cord<br>sets                                                                                                                           | AC 250 V / 16 A or less | BS   | N                |
| IEC 60884-1:2013       | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes - Part 1<br>: General requirements                                                                                                | AC 250 V / 16 A or less | BS   | N                |
| IEC 60884-2-<br>1:2006 | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes - Part<br>2-1 : Particular<br>requirements for fused<br>plugs                                                                     | AC 250 V / 16 A or less | BS   | N                |
| IEC 60884-2-<br>2:2006 | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes - Part<br>2-2 : Particular<br>requirements for socket-<br>outlets for appliances                                                  | AC 250 V / 16 A or less | BS   | N                |
| IEC 60884-2-<br>3:2006 | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes - Part<br>2-3 : Particular<br>requirements for<br>switched socket-outlets<br>without interlock for<br>fixed installations         | AC 250 V / 16 A or less | BS   | N                |
| IEC 60884-2-<br>4:2007 | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes - Part<br>2-4 : Particular<br>requirements for plugs<br>and socket-outlets for<br>SELV                                            | AC 250 V / 16 A or less | BS   | N                |
| IEC 60884-2-<br>5:2017 | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes - Part<br>2-5 : Particular<br>requirements for<br>adaptors                                                                        | AC 250 V / 16 A or less | BS   | N                |
| IEC 60884-2-<br>6:1997 | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes - Part<br>2-6 : Particular<br>requirements for<br>switched socket-outlets<br>with interlock for fixed<br>electrical installations | AC 250 V / 16 A or less | BS   | N                |
| IEC 61058-1:2016       | Electrical<br>materials and<br>components | Switches for appliances -<br>Part 1 : General<br>requirements                                                                                                                                       | AC 300 V / 20 A or less | BS   | N                |

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| Test method                        | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                         | Test range                                                                                             | Site | Field<br>testing |
|------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61242:2015                     | Electrical<br>materials and<br>components | Electrical accessories -<br>Cable reels for<br>household and similar<br>purposes                                                                                                                                                                                                | AC 250 V / 16 A or less                                                                                | BS   | N                |
| IEC 61960-3:2017                   | Electrical<br>materials and<br>components | Secondary cells and<br>batteries containing<br>alkaline or other non-<br>acid electrolytes -<br>Secondary lithium cells<br>and batteries for<br>portable applications -<br>Part 3: Prismatic and<br>cylindrical lithium<br>secondary cells and<br>batteries made from<br>them   | Max. DC 100 V<br>Max. DC 100 A<br>Temperature range : (-<br>40 ~ 160) °C                               | BS-3 | N                |
| IEC 62133-<br>2:2017+AMD1:20<br>21 | Electrical<br>materials and<br>components | Secondary cells and<br>batteries containing<br>alkaline or other non-<br>acid electrolytes - Safety<br>requirements for<br>portable sealed<br>secondary lithium cells,<br>and for batteries made<br>from them, for use in<br>portable applications -<br>Part 2: Lithium systems | Max. DC 100 V<br>Max. DC 100 A<br>Temperature range : (-<br>40 ~ 160) °C                               | BS-1 | N                |
| IEC 62133:2012                     | Electrical<br>materials and<br>components | Secondary cells and<br>batteries containing<br>alkaline or other non-<br>acid electrolytes - Safety<br>requirements for<br>portable sealed<br>secondary cells and for<br>batteries made from<br>them for use in portable<br>applications.                                       | Max. DC 1 000 V                                                                                        | BS-1 | N                |
| IEC 62619: 2017                    | Electrical<br>materials and<br>components | Secondary cells and<br>batteries containing<br>alkaline or other<br>nonacid electrolytes -<br>Safety requirements for<br>secondary lithium cells<br>and batteries, for use in<br>industrial application                                                                         | Max. Voltage: DC 1<br>500 V, Max. Current:<br>DC 1 200 A,<br>Temperature range: (-<br>40 ~ 160) °C     | BS-3 | N                |
| IEC 62619:2022                     | Electrical<br>materials and<br>components | Secondary cells and<br>batteries containing<br>alkaline or other non-<br>acid electrolytes - Safety<br>requirements for<br>secondary lithium cells<br>and batteries, for use in<br>industrial applications                                                                      | Max. Voltage : DC 1<br>500 V<br>Max. Current : DC 1<br>200 A<br>Temperature range : (-<br>40 ~ 160) °C | BS-3 | N                |



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| Test method           | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                           | Test range                                                                                             | Site | Field<br>testing |
|-----------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 62620:2023        | Electrical<br>materials and<br>components | Secondary cells and<br>batteries containing<br>alkaline or other non-<br>acid electrolytes -<br>Secondary lithium cells<br>and batteries for use in<br>industrial applications                                    | Max. Voltage : DC 1<br>500 V<br>Max. Current : DC 1<br>200 A<br>Temperature range : (-<br>40 ~ 160) °C | BS-3 | N                |
| IEC 62660-3:2022      | Electrical<br>materials and<br>components | Secondary lithium-ion<br>cells for the propulsion<br>of electric road vehicles -<br>Part 3: Safety<br>requirements                                                                                                | Max. DC 100 V<br>Max. DC 100 A<br>Temperature range : (-<br>40 ~ 160) °C                               | BS-3 | N                |
| K 10026:2013          | Electrical<br>materials and<br>components | Automatic socket-outlet<br>to cut-off standby<br>power                                                                                                                                                            | AC 250 V / 16 A or less                                                                                | BS   | N                |
| K 60320-2-2:2006      | Electrical<br>materials and<br>components | Appliance couplers for<br>household and similar<br>general purposes - Part<br>2-2 : Interconnection<br>couplers for household<br>and similar equipment                                                            | AC 250 V / 16 A or less                                                                                | BS   | N                |
| K 60730-2-<br>10:2009 | Electrical<br>materials and<br>components | Automatic electrical<br>controls for household<br>and similar use - Part 2-<br>10 : Particular<br>requirements for motor-<br>starting relays                                                                      | AC 450 V / 30 A or less                                                                                | BS   | N                |
| K 60730-2-<br>11:2009 | Electrical<br>materials and<br>components | Automatic electrical<br>controls for household<br>and similar use - Part 2-<br>11 : Particular<br>requirements for energy<br>regulators                                                                           | AC 450 V / 30 A or less                                                                                | BS   | N                |
| K 60730-2-2:2009      | Electrical<br>materials and<br>components | Automatic electrical<br>controls for household<br>and similar use - Part 2-<br>2 : Particular<br>requirements for<br>thermal motor<br>protectors                                                                  | AC 450 V / 30 A or less                                                                                | BS   | N                |
| K 60730-2-6:2009      | Electrical<br>materials and<br>components | Automatic electrical<br>controls for household<br>and similar use - Part 2-<br>6 : Particular<br>requirements for<br>automatic electrical<br>pressure sensing<br>controls including<br>mechanical<br>requirements | AC 450 V / 30 A or less                                                                                | BS   | N                |



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| Test method           | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                         | Test range                  | Site | Field<br>testing |
|-----------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|------------------|
| K 60730-2-7:2009      | Electrical<br>materials and<br>components | Automatic electrical<br>controls for household<br>and similar use - Part 2-<br>7 : Particular<br>requirements for timers<br>and time switches                                                                   | AC 450 V / 30 A or less     | BS   | N                |
| K 60730-2-9:2011      | Electrical<br>materials and<br>components | Automatic electrical<br>controls for household<br>and similar use - Part 2-<br>9 : Particular<br>requirements for<br>Temperature sensing<br>controls                                                            | AC 450 V / 30 A or less     | BS   | N                |
| K 60799:2006          | Electrical<br>materials and<br>components | Electrical accessories -<br>Cord sets and<br>interconnection cord<br>sets                                                                                                                                       | AC 250 V / 16 A or less     | BS   | N                |
| KC 60320-1:2015       | Electrical<br>materials and<br>components | Appliance couplers for<br>household and similar<br>general purposes - Part<br>1 : General<br>requirements                                                                                                       | AC 250 V / 16 A or less     | BS   | N                |
| KC 60320-2-<br>1:2015 | Electrical<br>materials and<br>components | Appliance couplers for<br>household and similar<br>general purposes - Part<br>2-1 : Sewing machine<br>couplers                                                                                                  | AC 250 V / 2.5 A or<br>less | BS   | N                |
| KC 60320-2-<br>3:2015 | Electrical<br>materials and<br>components | Appliance couplers for<br>household and similar<br>general purposes - Part<br>2-3 : Appliance couplers<br>with a degree of<br>protection higher than<br>IPX0                                                    | AC 250 V / 16 A or less     | BS   | N                |
| KC 60384-<br>14:2015  | Electrical<br>materials and<br>components | Fixed capacitors for use<br>in electronic equipment<br>- Part 14 : Sectional<br>specification : Fixed<br>capacitors for<br>electromagnetic<br>interference suppression<br>and connection to the<br>supply mains | AC 500 V or less            | BS   | N                |
| KC 60384-1:2015       | Electrical<br>materials and<br>components | Fixed capacitors for use<br>in electronic equipment<br>- Part1 : Generic<br>specification<br><Exception><br>4.8.1 Dissipation factor                                                                            | AC 500 V or less            | BS   | N                |

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| Test method           | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                     | Test range              | Site | Field<br>testing |
|-----------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------|------------------|
| KC 60669-1:2015       | Electrical<br>materials and<br>components | Switches for household<br>and similar fixed-<br>electrical installations -<br>Part 1 : General<br>requirements                                                                              | AC 300 V / 20 A or less | BS   | N                |
| KC 60669-2-<br>1:2015 | Electrical<br>materials and<br>components | Switches for household<br>and similar fixed-<br>electrical installations -<br>Part 2-1 : electronic<br>switches                                                                             | AC 300 V / 20 A or less | BS   | N                |
| KC 60669-2-<br>2:2015 | Electrical<br>materials and<br>components | Switches for household<br>and similar fixed-<br>electrical installations -<br>Part 2-2 :<br>electromagnetic remote<br>control switches(RCS)                                                 | AC 300 V / 20 A or less | BS   | N                |
| KC 60669-2-<br>3:2015 | Electrical<br>materials and<br>components | Switches for household<br>and similar fixed-<br>electrical installations -<br>Part 2-3 : time-delay<br>switches(TDS)                                                                        | AC 300 V / 20 A or less | BS   | N                |
| KC 60730-1:2015       | Electrical<br>materials and<br>components | Automatic electrical<br>controls for household<br>and similar use - Part 1 :<br>General Requirements                                                                                        | AC 450 V / 30 A or less | BS   | N                |
| KC 60884-1:2015       | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes - Part 1<br>: General requirements                                                                                        | AC 250 V / 16 A or less | BS   | N                |
| KC 60884-2-<br>1:2015 | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes - Part<br>2-1 : Particular<br>requirements for fused<br>plugs                                                             | AC 250 V / 16 A or less | BS   | N                |
| KC 60884-2-<br>2:2015 | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes - Part<br>2-2 : Particular<br>requirements for socket-<br>outlets for appliances                                          | AC 250 V / 16 A or less | BS   | N                |
| KC 60884-2-<br>3:2015 | Electrical<br>materials and<br>components | Plugs and socket-outlets<br>for household and<br>similar purposes - Part<br>2-3 : Particular<br>requirements for<br>switched socket-outlets<br>without interlock for<br>fixed installations | AC 250 V / 16 A or less | BS   | N                |

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| Test method       | Materials/<br>Products              | Standard<br>designation                                                                                                                                                        | Test range              | Site | Field<br>testing |
|-------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------|------------------|
| KC 60884-2-4:2015 | Electrical materials and components | Plugs and socket-outlets for household and similar purposes - Part 2-4 : Particular requirements for plugs and socket-outlets for SELV                                         | AC 250 V / 16 A or less | BS   | N                |
| KC 60884-2-5:2015 | Electrical materials and components | Plugs and socket-outlets for household and similar purposes - Part 2-5 : Particular requirements for adaptors                                                                  | AC 250 V / 16 A or less | BS   | N                |
| KC 60884-2-6:2015 | Electrical materials and components | Plugs and socket-outlets for household and similar purposes - Part 2-6 : Particular requirements for switched socket-outlets with interlock for fixed electrical installations | AC 250 V / 16 A or less | BS   | N                |
| KC 60939-1:2015   | Electrical materials and components | Complete filter units for radio interference suppression - Part 1 : Generic specification                                                                                      | AC 500 V or less        | BS   | N                |
| KC 60939-2:2015   | Electrical materials and components | Complete filter units for radio interference suppression - Part 2 : Sectional specification                                                                                    | AC 500 V or less        | BS   | N                |
| KC 61048:2015     | Electrical materials and components | Auxiliaries for lamps - Capacitors for use in tubular fluorescent and other discharge lamp circuits - General and safety requirements                                          | AC 500 V or less        | BS   | N                |
| KC 61058-1:2015   | Electrical materials and components | Switches for appliances- Part 1 : General requirements                                                                                                                         | AC 300 V / 20 A or less | BS   | N                |
| KC 61058-2-1:2015 | Electrical materials and components | Switches for appliances - Part 2-1 : Particular requirements for cord switches                                                                                                 | AC 300 V / 20 A or less | BS   | N                |
| KC 61058-2-4:2015 | Electrical materials and components | Switches for appliances - Part 2-4 : Particular requirements for independently mounted switches                                                                                | AC 300 V / 20 A or less | BS   | N                |
| KC 61058-2-5:2015 | Electrical materials and components | Switches for appliances - Part 2-5 : Particular requirements for change-over selectors                                                                                         | AC 300 V / 20 A or less | BS   | N                |

Korea Laboratory Accreditation Scheme(KOLAS) is a signatory to the ILAC Mutual Recognition Arrangement

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| Test method                         | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                         | Test range                                                                                             | Site | Field<br>testing |
|-------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------|------------------|
| KC 61242:2015                       | Electrical<br>materials and<br>components | Electrical accessories -<br>Cable reels for<br>household and similar<br>purposes                                                                                                                                                                                                | AC 250 V / 16 A or less                                                                                | BS   | N                |
| KC 62133-2:2020                     | Electrical<br>materials and<br>components | Secondary cells and<br>batteries containing<br>alkaline or other non-<br>acid electrolytes - Safety<br>requirements for<br>portable sealed<br>secondary lithium cells,<br>and for batteries made<br>from them, for use in<br>portable applications -<br>Part 2: Lithium systems | Max. DC 100 V<br>Max. DC 100 A<br>Temperature range : (-<br>40 ~ 160) °C                               | BS-1 | N                |
| KC 62133:2019                       | Electrical<br>materials and<br>components | Secondary cells and<br>batteries containing<br>alkaline or other non-<br>acid electrolyte - Safety<br>requirements for<br>portable sealed<br>secondary cells, and for<br>batteries made from<br>them, for use in<br>portable application                                        | Max. DC 100 V<br>Max. DC 100 A                                                                         | BS-1 | N                |
| KC 62619:2019                       | Electrical<br>materials and<br>components | Secondary cells and<br>batteries containing<br>alkaline or other non-<br>acid electrolytes - Safety<br>requirements for<br>secondary lithium cells<br>and batteries, for use in<br>industrial applications                                                                      | Max. Voltage : DC 1<br>500 V<br>Max. Current : DC 1<br>200 A<br>Temperature range : (-<br>40 ~ 160) °C | BS-3 | N                |
| KC 62619:2023                       | Electrical<br>materials and<br>components | Secondary cells and<br>batteries containing<br>alkaline or other non-<br>acid electrolytes - Safety<br>requirements for<br>secondary lithium cells<br>and batteries, for use in<br>industrial applications                                                                      | Max. Voltage : DC 1<br>500 V<br>Max. Current : DC 1<br>200 A<br>Temperature range : (-<br>40 ~ 160) °C | BS-3 | N                |
| KS C IEC 60730-<br>1:2020           | Electrical<br>materials and<br>components | Automatic electrical<br>controls -<br>Part 1 : General<br>Requirements                                                                                                                                                                                                          | AC 450 V / 30 A or less                                                                                | BS   | N                |
| KS C IEC 60730-2-<br>5 Annex H:2017 | Electrical<br>materials and<br>components | IEC 60730-2-5,<br>Automatic electrical<br>controls — Part 2-5:<br>Particular requirements<br>for automatic electrical<br>burner control systems<br>Annex H:<br>Requirements for<br>electronic controls                                                                          | AC 450 V / 30 A or less                                                                                | BS   | N                |

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| Test method                   | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                                      | Test range                                                                                   | Site | Field<br>testing |
|-------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 61960-3:2021         | Electrical materials and components | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications - Part 3: Prismatic and cylindrical lithium secondary cells, and batteries made from them | Max. DC 100 V<br>Max. DC 100 A<br>Temperature range : (-40 ~ 160) °C                         | BS-3 | N                |
| KS C IEC 62133-2:2021         | Electrical materials and components | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems     | Max. DC 100 V<br>Max. DC 100 A<br>Temperature range : (-40 ~ 160) °C                         | BS-1 | N                |
| KS C IEC 62619:2022           | Electrical materials and components | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications                                                         | Max. Voltage : DC 1 500 V<br>Max. Current : DC 1 200 A<br>Temperature range : (-40 ~ 160) °C | BS-3 | N                |
| KS C IEC 62620:2021           | Electrical materials and components | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for use in industrial applications                                                                                  | Max. Voltage : DC 1 500 V<br>Max. Current : DC 1 200 A<br>Temperature range : (-40 ~ 160) °C | BS-3 | N                |
| SPS-C KBIA-10100-02-7487:2022 | Electrical materials and components | Secondary lithium batteries for small unmanned aerial vehicle — performance test method                                                                                                                                                      | Max. DC 100 V<br>Max. DC 50 A<br>Temperature: (0 ~ 50) °C                                    | BS-3 | N                |
| SPS-C KBIA-10104-03-7312:2022 | Electrical materials and components | Secondary lithium-ion battery system for energy storage systems — performance and safety                                                                                                                                                     | Max. Voltage : DC 1 500 V<br>Max. Current : DC 1 200 A                                       | BS-3 | N                |

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| Test method | Materials/<br>Products                    | Standard<br>designation                                                                | Test range                                                                                        | Site | Field<br>testing |
|-------------|-------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------|------------------|
| UN Document | Electrical<br>materials and<br>components | The Manual of tests and<br>criteria; Eighth revised<br>edition, section 38.3 :<br>2023 | Max. Voltage : DC 600<br>V<br>Max. Current : DC 200<br>A<br>Temperature range : (-<br>40 ~ 75) °C | BS-3 | N                |

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## 03. Electrical Testing

### 03.005 Measuring instruments

| Test method           | Materials/<br>Products   | Standard<br>designation                                                                                                                                                                                                                                                                                      | Test range                     | Site | Field<br>testing |
|-----------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------|------------------|
| IEC 60145:1963        | Measuring<br>instruments | Var-hour(reactive<br>energy) meters                                                                                                                                                                                                                                                                          | AC 600 V or less               | BS-2 | N                |
| IEC 61869-1:2007      | Measuring<br>instruments | Instrument transformers<br>- Part 1: General<br>requirements<br>7.2.6 Test for accuracy                                                                                                                                                                                                                      | AC 110 kV, AC 10 kA<br>or less | BS-2 | N                |
| IEC 61869-2:2012      | Measuring<br>instruments | Instrument transformers<br>- Part 2: Additional<br>requirements for current<br>transformers<br>7.2.6 Test for accuracy                                                                                                                                                                                       | AC 10 kA or less               | BS-2 | N                |
| IEC 61869-3:2011      | Measuring<br>instruments | Instrument transformers<br>- Part 3: Additional<br>requirements for<br>inductive voltage<br>transformers<br>7.2.6 Test for accuracy                                                                                                                                                                          | AC 110 kV or less              | BS-2 | N                |
| IEC 61869-6:2016      | Measuring<br>instruments | Instrument transformers<br>- Part 6: Additional<br>general requirements<br>for low-power<br>instrument transformers<br>7.2.6 Test for accuracy                                                                                                                                                               | AC 230 V, DC 220 V or<br>less  | BS-2 | N                |
| IEC 62052-<br>11:2003 | Measuring<br>instruments | Electricity metering<br>equipment(AC)-General<br>requirements tests and<br>test conditions<br>- Part 11 : Metering<br>equipment<br><br><Exception><br>5.2 Tests of mechanical<br>requirements<br>8.3 Tests of the effect of<br>the climatic enviroments<br>9.3 Tests for<br>electromagnetic<br>compatibility | AC 600 V or less               | BS-2 | N                |
| IEC 62053-<br>11:2003 | Measuring<br>instruments | Electricity metering<br>equipment(a.c.)-<br>Particular requirements<br>- Part 11 : Electro<br>mechanical meters for<br>active energy (classes<br>0.5 1 and 2)                                                                                                                                                | AC 600 V or less               | BS-2 | N                |



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| Test method                                                                                                                  | Materials/<br>Products   | Standard<br>designation                                                                                                                                                                                                                                                                                                  | Test range       | Site | Field<br>testing |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|
| IEC 62053-21<br>Ed.1.0:2003                                                                                                  | Measuring<br>instruments | Electricity metering<br>equipment(a.c.)-<br>Particular requirements<br>- Part 21 : Static meters<br>for active energy (classes<br>1 and 2)<br><br><Exception><br>5.2 Tests of mechanical<br>requirements<br>8.3 Tests of the effect of<br>the climatic enviroments<br>9.3 Tests for<br>electromagnetic<br>compatibility  | AC 600 V or less | BS-2 | N                |
| IEC 62053-22<br>Ed.1.0:2003                                                                                                  | Measuring<br>instruments | Electricity metering<br>equipment(a.c.) -<br>Particular requirements<br>- Part 22 : Static meters<br>for active(classes 0.2 S<br>and 0.5 S)<br><br><Exception><br>5.2 Tests of mechanical<br>requirements<br>8.3 Tests of the effect of<br>the climatic enviroments<br>9.3 Tests for<br>electromagnetic<br>compatibility | AC 600 V or less | BS-2 | N                |
| IEC 62053-23<br>Ed.1.0:2003                                                                                                  | Measuring<br>instruments | Electricity metering<br>equipment(a.c.)-<br>Particular requirements<br>- Part 23 : Static meters<br>for reactive (classes 2<br>and 3)<br><br><Exception><br>5.2 Tests of mechanical<br>requirements<br>8.3 Tests of the effect of<br>the climatic enviroments<br>9.3 Tests for<br>electromagnetic<br>compatibility       | AC 600 V or less | BS-2 | N                |
| KS C 1208:2010<br><br><Exception><br>6.16 Tests of<br>effect of the<br>vibration<br>6.17 Tests of<br>effect of the<br>impact | Measuring<br>instruments | Alternating-current<br>watt-hour meters                                                                                                                                                                                                                                                                                  | AC 600 V or less | BS-2 | N                |

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| Test method                                                                                                                                                                                                                                                                                                     | Materials/<br>Products | Standard<br>designation                                                                                                             | Test range                 | Site | Field<br>testing |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------|------------------|
| KS C 1214:2010<br><Exception><br>7.17 Electromagnetic compatibility<br>7.18 Tests of the effect of the climatic environments<br>7.19 Resistance to vibration<br>7.20 Impact resistance<br>7.21 Mechanical strength<br>7.22 Protection against penetration of dust and water<br>7.23 Resistance to heat and fire | Measuring instruments  | Static meters for active/reactive energy (Class 0.2, 0.5, 1.0, 2.0 for active energy and Class 2.0, 3.0 for reactive energy)        | AC 600 V or less           | BS-2 | N                |
| KS C 1707                                                                                                                                                                                                                                                                                                       | Measuring instruments  | Instrument transformers for metering service<br>9.2 Characteristic of Current<br>9.3 Characteristic of Voltage                      | AC 110 kV, AC 5 kA or less | BS-2 | N                |
| KS C IEC 60044-1:2003                                                                                                                                                                                                                                                                                           | Measuring instruments  | Instrument transformers - Part 1 : Current Transformers<br>11.4 Type tests for accuracy of measuring current transformers           | AC 10 kA or less           | BS-2 | N                |
| KS C IEC 60044-2:2003                                                                                                                                                                                                                                                                                           | Measuring instruments  | Instrument transformers - Part 2 : Inductive voltage Transformers<br>12.3 Type tests for accuracy of measuring voltage transformers | AC 110 kV or less          | BS-2 | N                |
| KS C IEC 60145:2003                                                                                                                                                                                                                                                                                             | Measuring instruments  | Var-hour(reactive energy) meters                                                                                                    | AC 600 V or less           | BS-2 | N                |

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| Test method            | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                          | Test range       | Site | Field<br>testing |
|------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|
| KS C IEC 62052-11:2005 | Measuring instruments  | Electricity metering equipment(AC) - General requirements, tests and test conditions-Part 11 : Metering equipment<br><br><Exception><br>5.2 Tests of mechanical requirements<br>5.8 Tests of resistance to heat and fire<br>5.9 Tests of protection against penetration of dust and water<br>6.3 Tests of the effect of the climatic environments<br>7.5 Tests for electromagnetic compatibility | AC 600 V or less | BS-2 | N                |
| KS C IEC 62053-11:2003 | Measuring instruments  | Electricity metering equipment(AC) - Particular requirements - Part 11 : Electromechanical meters for active energy (Classes 0.5, 1 and 2)                                                                                                                                                                                                                                                       | AC 600 V or less | BS-2 | N                |
| KS C IEC 62053-21:2003 | Measuring instruments  | Electricity metering equipment(AC) - Particular requirements - Part 21 : Static meters for active energy (Classes 1 and 2)<br><br><Exception><br>5.2 Tests of mechanical requirements<br>5.3 Tests of the effect of the climatic environments<br>5.5 Tests for electromagnetic compatibility                                                                                                     | AC 600 V or less | BS-2 | N                |
| KS C IEC 62053-22:2003 | Measuring instruments  | Electricity metering equipment(AC) - Particular requirements - Part 22 : Static meters for active (Classes 0.2 S and 0.5 S)<br><br><Exception><br>5.2 Tests of mechanical requirements<br>5.3 Tests of the effect of the climatic environments<br>5.5 Tests for electromagnetic compatibility                                                                                                    | AC 600 V or less | BS-2 | N                |

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| Test method                           | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                             | Test range                     | Site | Field<br>testing |
|---------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------|------------------|
| KS C IEC 62053-23:2005                | Measuring instruments  | Electricity metering equipment(AC) - Particular requirements - Part 23 : Static meters for reactive (Classes 2 and 3)                                                                                                                                                                                                                                               | AC 600 V or less               | BS-2 | N                |
| MOTIE Notice No.2016-124(07.01.2016.) | Measuring instruments  | Watt - hour meters technical standards<br><br><Exception><br>7.17 Tests for electromagnetic compatibility<br>7.18 Tests of the effect of the climatic environments<br>7.19 Resistance to vibration<br>7.20 Impact resistance<br>7.21 Mechanical strength<br>7.22 Protection against penetration of dust and water                                                   | AC 600 V or less               | BS-2 | N                |
| MOTIE Notice No.2020-230(12.28.2020.) | Measuring instruments  | Watt - hour meters technical standards<br><br><Exception><br>5.2 Mechanical strength<br>8.3 Tests of the effect of the climatic environments<br>9.2 Tests for electromagnetic compatibility<br>12.5 Resistance to heat and fire<br>12.6 Protection against penetration of dust and water<br>13.1 Effect of wetting and SO2 gas<br>13.4 Effect of outdoor weathering | AC 1 000 V, DC 1 500 V or less | BS-2 | N                |
| MOTIE Notice No.2022-164(09.29.2022.) | Measuring instruments  | Electric vehicle chargers technical standards<br><br><Exception><br>8.2.1 Tests for electromagnetic compatibility                                                                                                                                                                                                                                                   | AC 600 V, DC 1 000 V or less   | BS-2 | N                |

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| Test method                                                     | Materials/<br>Products   | Standard<br>designation                                                                                                                                                                                                                                                                                               | Test range       | Site | Field<br>testing |
|-----------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|
| Kepco registered<br>purchase<br>standard(GS-<br>5963-0008:2017) | Measuring<br>instruments | Hall Effect Type Current<br>Sensor Modules for Low<br>Voltage<br>6.3.2 Test of Output<br>error<br>6.3.3 Test of Insulation<br>Resistance                                                                                                                                                                              | AC 250 A or less | BS-2 | N                |
| Kepco registered<br>purchase<br>standard(GS-<br>6625-0012:2002) | Measuring<br>instruments | Alternating-current<br>Watt-hour Meters for<br>Connection through<br>Instrument Transformer                                                                                                                                                                                                                           | AC 600 V or less | BS-2 | N                |
| Kepco registered<br>purchase<br>standard(GS-<br>6625-0015:2010) | Measuring<br>instruments | Static Meters for Low<br>Voltage<br><br><Exception><br>7.4.5 Tests for<br>electromagnetic<br>compatibility<br>7.4.6 Tests of the effect<br>of the climatic<br>enviroments<br>7.4.7 Tests of<br>mechanical<br>requirements<br>7.4.8 Tests for functions                                                                | AC 600 V or less | BS-2 | N                |
| Kepco registered<br>purchase<br>standard(GS-<br>6625-0037:2018) | Measuring<br>instruments | G-Type Static Meters for<br>Low Voltage<br><br><Exception><br>6.5 Tests for<br>electromagnetic<br>compatibility<br>6.6 Tests of the effect of<br>the climatic enviroments<br>6.7 Tests of mechanical<br>requirements<br>6.8 conformance test<br>for<br>metering/measurement<br>6.9 Tests for functions,<br>Field Test | AC 600 V or less | BS-2 | N                |

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| Test method                                                     | Materials/<br>Products   | Standard<br>designation                                                                                                                                                                                                                                                                                                                        | Test range       | Site | Field<br>testing |
|-----------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|
| Kepco registered<br>purchase<br>standard(GS-<br>6625-0055:2017) | Measuring<br>instruments | Advanced E-Type Static<br>Meters for Low Voltage<br><br><Exception><br>9.4.5 Tests for<br>electromagnetic<br>compatibility<br>9.4.6 Tests of the effect<br>of the climatic<br>enviroments<br>9.4.7 Tests of<br>mechanical<br>requirements<br>7.3.8 conformance test<br>for<br>metering/measurement<br>9.4.9 Tests for<br>functions, Field Test | AC 600 V or less | BS-2 | N                |
| Kepco registered<br>purchase<br>standard(GS-<br>6625-0060:2016) | Measuring<br>instruments | Solid State Recording<br>Electronic Meter<br><br><Exception><br>7.3.5 Tests for<br>electromagnetic<br>compatibility<br>7.3.6 Tests of the effect<br>of the climatic<br>enviroments<br>7.3.7 Tests of<br>mechanical<br>requirements<br>7.3.8 Tests for<br>functions, Field Test                                                                 | AC 600 V or less | BS-2 | N                |
| Kepco registered<br>purchase<br>standard(GS-<br>6625-0060:2018) | Measuring<br>instruments | Solid State Recording<br>Electronic Meter<br><br><Exception><br>7.3.5 Tests for<br>electromagnetic<br>compatibility<br>7.3.6 Tests of the effect<br>of the climatic<br>enviroments<br>7.3.7 Tests of<br>mechanical<br>requirements<br>7.3.8 Tests for<br>functions, Field Test                                                                 | AC 600 V or less | BS-2 | N                |

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| Test method                                                      | Materials/<br>Products   | Standard<br>designation                                                                                                                                                                                                                                                                          | Test range       | Site | Field<br>testing |
|------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|
| Kepeco registered<br>purchase<br>standard(GS-<br>6625-0061:2017) | Measuring<br>instruments | E-Type Static Meters for<br>Low Voltage<br><br><Exception><br>7.4.5 Tests for<br>electromagnetic<br>compatibility<br>7.4.6 Tests of the effect<br>of the climatic<br>enviroments<br>7.4.7 Tests of<br>mechanical<br>requirements<br>7.4.8 Tests for<br>functions, Field Test                     | AC 600 V or less | BS-2 | N                |
| Kepeco registered<br>purchase<br>standard(GS-<br>6625-0062:2012) | Measuring<br>instruments | Solid Static Watt-hour<br>Meters with CT for Low<br>Voltage<br><br><Exception><br>7.4.5 Tests for<br>electromagnetic<br>compatibility<br>7.4.6 Tests of the effect<br>of the climatic<br>enviroments<br>7.4.7 Tests of<br>mechanical<br>requirements<br>7.4.8 Tests for<br>functions, Field Test | AC 600 V or less | BS-2 | N                |



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## 03. Electrical Testing

### 03.006 Electrical machinery for industries

| Test method                          | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                              | Test range | Site | Field<br>testing |
|--------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
| CHAdeMO<br>0.9.1:2012                | Electrical<br>machinery for<br>industries | Technical Specifications<br>of Quick Charger for the<br>Electric Vehicle<br>CHAdeMO Rev. 0.9.1<br>6. Communication<br>control<br>7. Charging control                                 | -          | BS-1 | N                |
| CHAdeMO 1.2.5<br>Amendment<br>1:2023 | Electrical<br>machinery for<br>industries | Technical Specifications<br>of Quick Charger for<br>Electric Vehicles<br>CHAdeMO 1.2 5th<br>Edition<br>Amendment 1<br>5.2 List of CHAdeMO<br>protocol test                           | -          | BS-1 | N                |
| CHAdeMO 2.0.2<br>Amendment<br>1:2023 | Electrical<br>machinery for<br>industries | Technical Specifications<br>of Quick Charger for<br>Electric Vehicles<br>CHAdeMO 2.0.2<br>Amendment 1<br>5.2 List of CHAdeMO<br>protocol test                                        | -          | BS-1 | N                |
| CHAdeMO V2H<br>2.1:2014              | Electrical<br>machinery for<br>industries | Guidelines of<br>Charge/Discharge<br>System for Electric<br>Vehicle V2H DC version<br>EVPS-002 : 2014<br>Version 2.1<br>8. Communication<br>control                                  | -          | BS-1 | N                |
| CHAdeMO V2L<br>2.1:2014              | Electrical<br>machinery for<br>industries | Guidelines of<br>Charge/Discharge<br>System for Electric<br>Vehicle V2L DC version<br>EVPS-004 : 2014<br>Version 2.1<br>8. Communication<br>control                                  | -          | BS-1 | N                |
| DIN SPEC<br>70121:2014               | Electrical<br>machinery for<br>industries | Electromobility - Digital<br>communication<br>between a d.c. EV<br>charging station and an<br>electric vehicle for<br>control of d.c. charging<br>in the Combined<br>Charging System | -          | BS-1 | N                |

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| Test method            | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Test range                                                                                                                       | Site | Field<br>testing |
|------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| DIN SPEC<br>70122:2018 | Electrical<br>machinery for<br>industries | Electromobility -<br>Conformance test for<br>digital communication<br>between a d.c. EV<br>charging station and an<br>electric vehicle for<br>control of d.c. charging<br>in the Combined<br>Charging System<br>8.2 SECC + PLC bridge<br>test cases<br>9.2 SECC + PLC bridge<br>test cases<br>10.2 SECC + PLC bridge<br>test cases<br>11.2 SECC + PLC bridge<br>test cases<br>12.2 SECC + PLC bridge<br>test cases<br>13.5.2 SECC + PLC<br>bridge test cases<br>13.6.2 SECC + PLC<br>bridge test cases<br>13.7.2 SECC + PLC<br>bridge test cases | -                                                                                                                                | BS-1 | N                |
| ES-5945-<br>0001:2017  | Electrical<br>machinery for<br>industries | Overcurrent Relays<br><Exception><br>Clause 6.5.7: EMC test<br>Clause 6.5.8: Voltage<br>dips, short interruptions<br>and voltage variations<br>immunity tests<br>Clause 6.5.9:<br>Environmental testing                                                                                                                                                                                                                                                                                                                                          | Aux. power rated<br>voltage : DC 300 V or<br>less<br>CT rated current: 500<br>A or less<br>PT rated voltage: AC<br>300 V or less | BS-1 | N                |
| ES-5945-<br>0002:2017  | Electrical<br>machinery for<br>industries | Overcurrent Relays with<br>Reclosing<br><Exception><br>Clause 6.5.7: EMC test<br>Clause 6.5.8: Voltage<br>dips, short interruptions<br>and voltage variations<br>immunity tests<br>Clause 6.5.9:<br>Environmental testing                                                                                                                                                                                                                                                                                                                        | Aux. power rated<br>voltage : DC 300 V or<br>less<br>CT rated current: 500<br>A or less<br>PT rated voltage: AC<br>300 V or less | BS-1 | N                |
| ES-5945-<br>0003:2013  | Electrical<br>machinery for<br>industries | Over Voltage Relays<br><Exception><br>Clause 6.4.7: EMC test<br>Clause 6.4.8: Voltage<br>dips, short interruptions<br>and voltage variations<br>immunity tests<br>Clause 6.4.9:<br>Environmental testing                                                                                                                                                                                                                                                                                                                                         | Aux. power rated<br>voltage : DC 300 V or<br>less<br>CT rated current: 500<br>A or less<br>PT rated voltage: AC<br>300 V or less | BS-1 | N                |

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| Test method       | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                  | Test range                                                                                                           | Site | Field<br>testing |
|-------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------|------------------|
| ES-5945-0004:2013 | Electrical machinery for industries | Under Voltage Relays<br><Exception><br>Clause 6.4.7: EMC test<br>Clause 6.4.8: Voltage dips, short interruptions and voltage variations immunity tests<br>Clause 6.4.9: Environmental testing            | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| ES-5945-0005:2012 | Electrical machinery for industries | Negative Phase Sequence Relays<br><Exception><br>Clause 6.4.10 ~ Clause 6.4.17                                                                                                                           | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| ES-5945-0006:2017 | Electrical machinery for industries | Directional Over-current Relays<br><Exception><br>Clause 6.5.7: EMC test<br>Clause 6.5.8: Voltage dips, short interruptions and voltage variations immunity tests<br>Clause 6.5.9: Environmental testing | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| ES-5945-0007:2008 | Electrical machinery for industries | Selective Ground Relays                                                                                                                                                                                  | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| ES-5945-0008:2008 | Electrical machinery for industries | Current Ratio Differential Relays<br><Exception><br>Clause 5.6: Harmonics suppression characteristic test                                                                                                | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| ES-5945-0009:2008 | Electrical machinery for industries | Reclosing Relays                                                                                                                                                                                         | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |

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| Test method         | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                               | Test range                                                                                                           | Site | Field<br>testing |
|---------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------|------------------|
| GS-5895-0066:2022   | Electrical machinery for industries | xGrids Transfer<br>Clause 7.4.1: IEC61850 Conformance Testing (Client)<br>Clause 7.4.2: IEC61850 Conformance Testing (Server)<br>Clause 7.4.3: function/performance test                              | -                                                                                                                    | BS-1 | N                |
| GS-5895-0067:2022   | Electrical machinery for industries | SCADA IEC 61850 FEP<br>Clause 7.3.1: IEC61850 Conformance Testing (Client)<br>Clause 7.3.2: function/performance test                                                                                 | -                                                                                                                    | BS-1 | N                |
| GS-5945-0015:2007   | Electrical machinery for industries | Digital Current Ratio Differential Relays<br><Exception><br>Clause 6.4.10 ~ Clause 6.4.17                                                                                                             | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-5945-0016:2013   | Electrical machinery for industries | Digital UnderFrequency Relay<br><Exception><br>Clause 5.4.7: EMC test<br>Clause 5.4.8: Voltage dips, short interruptions and voltage variations immunity tests<br>Clause 5.4.9: Environmental testing | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-5945-0017:2010   | Electrical machinery for industries | Over-current Relay to prevent 96P from mal-function<br><Exception><br>Clause 6.2.10 ~ Clause 6.2.17                                                                                                   | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-5945-0019:2013   | Electrical machinery for industries | IED of Station Power, Disaster Prevention and Security                                                                                                                                                | DC 125 V or less<br>Contact capacity 30 A or less                                                                    | BS-1 | N                |
| GS-5945-0020 : 2013 | Electrical machinery for industries | Under frequency Protection Intelligent Electronic Device                                                                                                                                              | DC 125 V or less<br>Contact capacity 30 A or less                                                                    | BS-1 | N                |
| GS-5945-0021:2013   | Electrical machinery for industries | Overvoltage Protection Intelligent Electronic Device                                                                                                                                                  | DC 125 V or less<br>Contact capacity 30 A or less<br>Time overvoltage element 160 V or less                          | BS-1 | N                |

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| Test method       | Materials/<br>Products              | Standard<br>designation                                                             | Test range                                                                                                           | Site | Field<br>testing |
|-------------------|-------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------|------------------|
| GS-5945-0022:2017 | Electrical machinery for industries | Control Intelligenet Electronic Device for Transformer                              | DC 125 V or less<br>Contact capacity 30 A or less                                                                    | BS-1 | N                |
| GS-5945-0023:2013 | Electrical machinery for industries | Current Ratio Differential Protection Intelligent Electronic Device For Transformer | DC 125 V or less<br>Contact capacity 30 A or less<br>Time overcurrent element 100 A or less                          | BS-1 | N                |
| GS-5945-0024:2017 | Electrical machinery for industries | Overcurrent Protection Intelligent Electronic Device with Reclosing                 | DC 125 V or less<br>Contact capacity 30 A or less<br>Time overcurrent element 80 A or less                           | BS-1 | N                |
| GS-5945-0025:2017 | Electrical machinery for industries | Overcurrent Protection Intelligent Electronic Device                                | DC 125 V or less<br>Contact capacity 30 A or less<br>Time overcurrent element 80 A or less                           | BS-1 | N                |
| GS-5945-0026:2013 | Electrical machinery for industries | Undervoltage Protection Intelligent Electronic Device                               | DC 125 V or less<br>Contact capacity 30 A or less                                                                    | BS-1 | N                |
| GS-5945-0027:2017 | Electrical machinery for industries | Directional Overcurrent Protection Intelligent Electronic Device                    | DC 125 V or less<br>Contact capacity 30 A or less<br>Time overcurrent element 80 A or less                           | BS-1 | N                |
| GS-5945-0028:2017 | Electrical machinery for industries | Overcurrent Protection Intelligent Electronic Device                                | AC 220 V or less, DC 125 V or less<br>Contact capacity 30 A or less<br>Time overcurrent element 80 A or less         | BS-1 | N                |
| GS-5945-0029:2017 | Electrical machinery for industries | Directional Overcurrent Protection Intelligent Electronic Device                    | AC 220 V or less, DC 125 V or less<br>Contact capacity 30 A or less<br>Time overcurrent element 80 A or less         | BS-1 | N                |
| GS-5945-0030:2013 | Electrical machinery for industries | Digital ILC Panel                                                                   | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |

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| Test method       | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                | Test range                                                                                                           | Site | Field<br>testing |
|-------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------|------------------|
| GS-5945-0031:2017 | Electrical machinery for industries | Directional Over-current Relay with Reclosing<br><Exception><br>Clause 6.5.7: EMC test<br>Clause 6.5.8: Voltage dips, short interruptions and voltage variations immunity tests<br>Clause 6.5.9: Environmental testing | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-6110-0030:2019 | Electrical machinery for industries | 345kV Main Transformer Protection Panel<br><Exception><br>Clause 6.2.2.(6): EMC test<br>Clause 6.2.2.(7): Environmental testing                                                                                        | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-6110-0033:2016 | Electrical machinery for industries | 345kV Bus Protection Panel<br><Exception><br>Clause 6.2.2.(6): EMC test<br>Clause 6.2.2.(7): Environmental testing                                                                                                     | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-6110-0034:2017 | Electrical machinery for industries | Under Frequency Relay Trip Control Device<br><Exception><br>Clause 5.2.(6): EMC test<br>Clause 5.2.(7): Environmental testing                                                                                          | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-6110-0039:2020 | Electrical machinery for industries | 154kV T/L Protection Panel<br><Exception><br>Clause 6.2.2.(6): EMC test<br>Clause 6.2.2.(7): Voltage dips, short interruptions and voltage variations immunity tests<br>Clause 6.2.2.(8): Environmental testing        | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-6110-0045:2005 | Electrical machinery for industries | Direction Comparison and PCM Current Differential Scheme for 345kV T/L Protection Panel<br><Exception><br>Clause 6.2.2.(11) ~ Clause 6.2.2.(18)                                                                        | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |



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| Test method       | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                              | Test range                                                                                                                       | Site | Field<br>testing |
|-------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| GS-6110-0046:2019 | Electrical<br>machinery for<br>industries | Breaker Failure<br>Protection Panel under<br>345kV Substation<br><Exception><br>Clause 6.2.2.(6): EMC<br>test<br>Clause 6.2.2.(7):<br>Voltage dips, short<br>interruptions and<br>voltage variations<br>immunity tests<br>Clause 6.2.2.(8):<br>Environmental testing | Aux. power rated<br>voltage : DC 300 V or<br>less<br>CT rated current: 500<br>A or less<br>PT rated voltage: AC<br>300 V or less | BS-1 | N                |
| GS-6110-0050:2019 | Electrical<br>machinery for<br>industries | A Protection Panel Of<br>Under Frequency Relays                                                                                                                                                                                                                      | Aux. power rated<br>voltage : DC 300 V or<br>less<br>CT rated current: 500<br>A or less<br>PT rated voltage: AC<br>300 V or less | BS-1 | N                |
| GS-6110-0059:2017 | Electrical<br>machinery for<br>industries | Protective Relay Panels<br>for 345kV Transmission<br>Line<br><Exception><br>Clause 6.2.2.(6): EMC<br>test<br>Clause 6.2.2.(7):<br>Environmental testing                                                                                                              | Aux. power rated<br>voltage : DC 300 V or<br>less<br>CT rated current: 500<br>A or less<br>PT rated voltage: AC<br>300 V or less | BS-1 | N                |
| GS-6110-0063:2007 | Electrical<br>machinery for<br>industries | DOCR PNL-Digital Dual                                                                                                                                                                                                                                                | Aux. power rated<br>voltage : DC 300 V or<br>less<br>CT rated current: 500<br>A or less<br>PT rated voltage: AC<br>300 V or less | BS-1 | N                |
| GS-6110-0070:2020 | Electrical<br>machinery for<br>industries | 154kV Short Distance<br>T/L Protection Panel<br><Exception><br>Clause 6.2.2.(6): EMC<br>test<br>Clause 6.2.2.(7):<br>Voltage dips, short<br>interruptions and<br>voltage variations<br>immunity tests<br>Clause 6.2.2.(8):<br>Environmental testing                  | Aux. power rated<br>voltage : DC 300 V or<br>less<br>CT rated current: 500<br>A or less<br>PT rated voltage: AC<br>300 V or less | BS-1 | N                |
| GS-6110-0072:2007 | Electrical<br>machinery for<br>industries | Directional Overcurrent<br>Relay Scheme for 154kV<br>T/L Protection Panel<br><Exception><br>Clause 6.2.2.(8) ~<br>Clause 6.2.2.(15)                                                                                                                                  | Aux. power rated<br>voltage : DC 300 V or<br>less<br>CT rated current: 500<br>A or less<br>PT rated voltage: AC<br>300 V or less | BS-1 | N                |



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| Test method       | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                                  | Test range                                                                                                                                             | Site | Field<br>testing |
|-------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| GS-6110-0073:2007 | Electrical machinery for industries | Nondirectional Overcurrent Relay Scheme for 154kV T/L Protection Panel<br><Exception><br>Clause 6.2.2.(8) ~<br>Clause 6.2.2.(15)                                                                                                         | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less                                   | BS-1 | N                |
| GS-6110-0074:2018 | Electrical machinery for industries | 154kV Main Transformer Protection Panel                                                                                                                                                                                                  | AC 220 V or less, DC 125 V or less<br>Contact capacity 30 A or less<br>Time overcurrent element 80 A or less<br>Time overvoltage element 160 V or less | BS-1 | N                |
| GS-6110-0074:2019 | Electrical machinery for industries | 154kV Main Transformer Protection Panel<br><Exception><br>Clause 6.2.2.(6): EMC test<br>Clause 6.2.2.(7): Voltage dips, short interruptions and voltage variations immunity tests<br>Clause 6.2.2.(8): Environmental testing             | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less                                   | BS-1 | N                |
| GS-6110-0078:2020 | Electrical machinery for industries | Special Protection Equipment<br><Exception><br>Clause 6.2.2.(6): EMC test<br>Clause 6.2.2.(7): Voltage dips, short interruptions and voltage variations immunity tests<br>Clause 6.2.2.(8): Environmental testing                        | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less                                   | BS-1 | N                |
| GS-6110-0080:2020 | Electrical machinery for industries | Protective Relay Panels for 765kV Transmission Line<br><Exception><br>Clause 6.2.2.(6): EMC test<br>Clause 6.2.2.(7): Voltage dips, short interruptions and voltage variations immunity tests<br>Clause 6.2.2.(8): Environmental testing | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less                                   | BS-1 | N                |

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| Test method       | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                     | Test range                                                                                                           | Site | Field<br>testing |
|-------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------|------------------|
| GS-6110-0081:2013 | Electrical machinery for industries | 765kV Main Transformer Protection Panel<br><Exception><br>Clause 6.2.2.(6): EMC test<br>Clause 6.2.2.(7): Environmental testing                                                                                             | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-6110-0082:2020 | Electrical machinery for industries | 765kV Breaker Failure Protection Panel<br><Exception><br>Clause 6.2.2.(6): EMC test<br>Clause 6.2.2.(7): Voltage dips, short interruptions and voltage variations immunity tests<br>Clause 6.2.2.(8): Environmental testing | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-6110-0083:2020 | Electrical machinery for industries | 765kV Bus Protection Panel<br><Exception><br>Clause 6.2.2.(6): EMC test<br>Clause 6.2.2.(7): Voltage dips, short interruptions and voltage variations immunity tests<br>Clause 6.2.2.(8): Environmental testing             | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-6110-0084:2015 | Electrical machinery for industries | 154kV Sh.C Bank Protection Panel<br><Exception><br>Clause 6.2.2.(6): EMC test<br>Clause 6.2.2.(7): Environmental testing                                                                                                    | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less | BS-1 | N                |
| GS-6110-0089:2013 | Electrical machinery for industries | 154kV T/L IED Panel with PCM Current Differential Scheme                                                                                                                                                                    | AC 220 V or less, DC 125 V or less<br>Contact capacity 30 A or less                                                  | BS-1 | N                |
| GS-6110-0090:2013 | Electrical machinery for industries | 154kV Short Distance T/L IED Panel with PCM Current Differential Scheme                                                                                                                                                     | AC 220 V or less, DC 125 V or less<br>Contact capacity 30 A or less<br>Time overcurrent element 80 A or less         | BS-1 | N                |
| GS-6110-0094:2017 | Electrical machinery for industries | 154kV Substation Automation Operating System                                                                                                                                                                                | AC 220 V or less, DC 125 V or less                                                                                   | BS-1 | N                |

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| Test method       | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                             | Test range                                                                                                                           | Site | Field<br>testing |
|-------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| GS-6110-0094:2022 | Electrical machinery for industries | 154kV Substation Automation Operating System<br>Clause 5.4 (2): Insulation resistance test,<br>Clause 5.4 (3): AC or d.c. dielectric voltage test,<br>Clause 5.4 (4): Impulse voltage test,<br>Clause 5.4 (8): Burden test,<br>Clause 5.4 (9): System function/performance test,<br>Clause 5.4 (10): IEC61850 Conformance Testing(Client),<br>Clause 5.4 (13): IEC61850 Conformance Testing(Server) | Clause 5.4 (2): AC 500 V, 60 GΩ,<br>Clause 5.4 (3): AC 2 kV,<br>Clause 5.4 (4): AC 5 kV,<br>Clause 5.4 (8): DC 150 V, AC 275 V, 30 A | BS-1 | N                |
| GS-6110-0096:2017 | Electrical machinery for industries | OLTC Protective Relay <Exception><br>Clause 4.2.5: Vibration and shock tests                                                                                                                                                                                                                                                                                                                        | Aux. power rated voltage : DC 300 V or less<br>CT rated current: 500 A or less<br>PT rated voltage: AC 300 V or less                 | BS-1 | N                |
| GS-6110-0097:2018 | Electrical machinery for industries | 154kV Hybrid Substation Automation Operating System                                                                                                                                                                                                                                                                                                                                                 | AC 220 V or less, DC 125 V or less                                                                                                   | BS-1 | N                |

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| Test method       | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Test range                                                                                                                                                                                                        | Site | Field<br>testing |
|-------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| GS-6110-0097:2022 | Electrical<br>machinery for<br>industries | 154kV Hybrid<br>Substation Automation<br>Operating System<br>Clause 5.4 (2):<br>Insulation resistance<br>test,<br>Clause 5.4 (3): AC or<br>d.c. dielectric voltage<br>test,<br>Clause 5.4 (4): Impulse<br>voltage test,<br>Clause 5.4 (8): Burden<br>test,<br>Clause 5.4 (9): Overload<br>capatiry test, Clause 5.4<br>(10): Contact<br>performance test,<br>Clause 5.4 (11): System<br>function/performance<br>test,<br>Clause 5.4 (12):<br>IEC61850 Conformance<br>Testing(Client),<br>Clause 5.4 (15):<br>IEC61850 Conformance<br>Testing(Server) | Clause 5.4 (2): AC 500<br>V, 60 GΩ,<br>Clause 5.4 (3): AC 2<br>kV,<br>Clause 5.4 (4): AC 5<br>kV,<br>Clause 5.4 (8): DC 150<br>V, AC 275 V, 30 A,<br>Clause 5.4 (9): DC 200<br>V, 60 A,<br>Clause 5.4 (10): 150 V | BS-1 | N                |
| GS-6110-0098:2018 | Electrical<br>machinery for<br>industries | 345kV Hybrid<br>Substation Automation<br>Operating System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AC 220 V or less, DC<br>125 V or less                                                                                                                                                                             | BS-1 | N                |
| GS-6110-0239:2019 | Electrical<br>machinery for<br>industries | 154kV Bus Protection<br>Panel<br><Exception><br>Clause 6.2.2.(6): EMC<br>test<br>Clause 6.2.2.(7):<br>Voltage dips, short<br>interruptions and<br>voltage variations<br>immunity tests<br>Clause 6.2.2.(8):<br>Environmental testing                                                                                                                                                                                                                                                                                                                 | Aux. power rated<br>voltage : DC 300 V or<br>less<br>CT rated current: 500<br>A or less<br>PT rated voltage: AC<br>300 V or less                                                                                  | BS-1 | N                |
| GS-6110-0247:2012 | Electrical<br>machinery for<br>industries | Station Power, Disaster<br>prevention and Security<br>Panel with Intelligent<br>Electronic Devices                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DC 125 V or less<br>Contact capacity 30 A<br>or less                                                                                                                                                              | BS-1 | N                |
| GS-6110-0263:2018 | Electrical<br>machinery for<br>industries | On-line Partial Discharge<br>diagnostic System for<br>Under ground<br>Transmission Line                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DC 125 V or less<br>Sensor Freq. 300 MHz<br>or less                                                                                                                                                               | BS-1 | N                |

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|-------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| GS-6110-0265:2017 | Electrical machinery for industries | 154kV Main Transformer Protection IED Panel                                                                                                           | AC 220 V or less, DC 125 V or less<br>Contact capacity 30 A or less<br>Time overcurrent element 80 A or less<br>Time overvoltage element 160 V or less | BS-1 | N                |
| GS-6110-0269:2018 | Electrical machinery for industries | Substation total diagnostic system                                                                                                                    | DC 125 V or less<br>Contact capacity 30 A or less                                                                                                      | BS-1 | N                |
| GS-6110-0270:2016 | Electrical machinery for industries | Directional Overcurrent Realy Scheme for 154kV Customer T/L IED Panel                                                                                 | AC 220 V or less, DC 125 V or less<br>Contact capacity 30 A or less<br>Time overcurrent element 80 A or less                                           | BS-1 | N                |
| GS-6110-0271:2016 | Electrical machinery for industries | Nondirectional Overcurrent Realy Scheme for 154kV Customer T/L IED Panel                                                                              | AC 220 V or less, DC 125 V or less<br>Contact capacity 30 A or less                                                                                    | BS-1 | N                |
| GS-6350-0016:2020 | Electrical machinery for industries | The Underground Power Tunnel Operating System based on IEC 61850<br><Exception><br>Clause 8.3.4: Environmental testing<br>Clause 8.3.5: EMC test      | IEC 61850 conformance test tool(SW version 1.0)<br><br>Network Device                                                                                  | BS-1 | N                |
| IEC 60079-0:2017  | Electrical machinery for industries | Explosive atmosphere - Part 0 : Equipment-General requirements<br><Exception><br>26.11 Resistance to chemical agents for Group I electrical apparatus | Max. 15 600 V, Max. 2 000 A,<br>Surface Temp.: (-60 ~ +1 000) °C                                                                                       | BS-1 | N                |
| IEC 60079-11:2011 | Electrical machinery for industries | Explosive atmospheres - Part 11 : Equipment protection by intrinsic safety "i"                                                                        | Max. 15 600 V, Max. 900 A,<br>Surface Temp.: (-60 ~ +1 000) °C                                                                                         | BS-1 | N                |
| IEC 60079-11:2023 | Electrical machinery for industries | Explosive atmospheres - Part 11 : Equipment protection by intrinsic safety "i"                                                                        | Max. 15 600 V, Max. 900 A,<br>Surface Temp.: (-60 ~ +1 000) °C                                                                                         | BS-1 | N                |
| IEC 60079-13:2017 | Electrical machinery for industries | Explosive atmospheres - Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v"                                    | Surface Temp.: (-60 ~ +500) °C<br>Maximum Pressure: 15 kPa<br>Maximum Flow Rate: 300 LPM                                                               | BS-1 | N                |

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|-----------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60079-15:2017           | Electrical machinery for industries | Explosive atmospheres - Part 15 : Equipment protection by type of protection "n"                                                                                                                         | Max. 15 000 V, Max. 2 000 A, Surface Temp.: (-60 ~ +1 000) °C                                               | BS-1 | N                |
| IEC 60079-18:2014+AMD1:2017 | Electrical machinery for industries | Explosive atmospheres - Part 18 : Equipment protection by encapsulation "m"                                                                                                                              | Max. 15 000 V, Max. 2 000 A, Surface Temp.: (-60 ~ +1 000) °C                                               | BS-1 | N                |
| IEC 60079-1:2014            | Electrical machinery for industries | Explosive atmospheres - Part 1 : Equipment protection by flameproof enclosures "d"                                                                                                                       | Max. 13 640 V, Max. 2 000 A, Max. Overpressure: 10 MPa, Surface Temp.: (-60 ~ +500) °C                      | BS-1 | N                |
| IEC 60079-25:2020           | Electrical machinery for industries | Explosive atmospheres - Part 25 : intrinsically safe electrical systems                                                                                                                                  | Max. 15 600 V, Max. 900 A, Surface Temp.: (-60 ~ +1 000) °C                                                 | BS-1 | N                |
| IEC 60079-26:2021           | Electrical machinery for industries | Explosive atmospheres - Part 26 : Equipment With Separation Elements or combined Levels of Protection                                                                                                    | Max. 15 600 V, Max. 2 000 A, Surface Temp.: (-60 ~ +500) °C                                                 | BS-1 | N                |
| IEC 60079-28:2015           | Electrical machinery for industries | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation <Exception><br>6.2 Verification of suitability of test set-up for type tests<br>6.3 Type tests | 1 µW ~ 3 W                                                                                                  | BS-1 | N                |
| IEC 60079-2:2014            | Electrical machinery for industries | Explosive atmospheres - Part 2 : Equipment protection by pressurized enclosure "p"                                                                                                                       | Max. 13 640 V, Max. 2 000 A, Max. Pressure: 15 kPa, Max. Flow Rate: 300 LPM, Surface Temp.: (-60 ~ +500) °C | BS-1 | N                |
| IEC 60079-31:2022           | Electrical machinery for industries | Explosive atmospheres - Part 31 : Equipment dust ignition protection by enclosure "t"                                                                                                                    | Max. 15 600 V, Max. 2 000 A, Surface Temp.: (-60 ~ +500) °C                                                 | BS-1 | N                |
| IEC 60079-5:2015+AMD1:2022  | Electrical machinery for industries | Explosive atmospheres - Part 5 : Equipment protection by powder filling "q"                                                                                                                              | Max. 1 000 V, Max. 16 A, Max. Overpressure: 1 MPa, Surface Temp.: (-60 ~ +500) °C                           | BS-1 | N                |



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|----------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60079-6:2015                       | Electrical<br>machinery for<br>industries | Explosive atmospheres -<br>Part 6 : Equipment<br>protection by liquid<br>immersion "o"                                                                                                                         | Max. 13 640 V, Max. 2<br>000 A,<br>Max. Overpressure: 1<br>MPa,<br>Surface Temp.: (-60 ~<br>+500) °C                                                                                                                                                                                                                                                                        | BS-1 | N                |
| IEC 60079-<br>7:2015+AMD1:20<br>17     | Electrical<br>machinery for<br>industries | Explosive atmospheres -<br>Part 7 : Equipment<br>protection by increased<br>safety "e"<br><Exception><br>6.2 Rotating electrical<br>machines<br>Annex A Temperature<br>determination of<br>electrical machines | Max. 13 640 V, Max. 2<br>000 A,<br>Surface Temp.: (-60 ~<br>+500) °C                                                                                                                                                                                                                                                                                                        | BS-1 | N                |
| IEC 60255-1<br>Edition 1.0 2009-<br>08 | Electrical<br>machinery for<br>industries | Measuring Relays and<br>Protection Equipment<br>Part 1 : Common<br>requirements                                                                                                                                | 0.9 ~ 1 A,<br>≥ 5 ~ 30 A,<br>500 V ± 10 %,<br>500 V d.c.,<br>12 V r.ms. ac or 12 V<br>d.c.,<br>30 mV ~ 230 V,<br>0.1 Ω or less,<br>10 MΩ or more,<br>100 MΩ or more,<br>≥ 30 ~ 1 000 W<br>at L/R = 40 ms,<br>-40 °C ~ 70 °C/<br>±3 °C/<br>1 °C ± 0.2 °C/min,<br>93 ± 3 %,<br>60 % ± 10 %,<br>97 %, -2 % +3 %,<br>45 ~ 75 % RH,<br>86 ~ 106 kPa,<br>50 Hz or 60 Hz<br>±0.2 % | BS-1 | N                |



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|----------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60255-27<br>Edition 2.0 2013-10                            | Electrical<br>machinery for<br>industries | Measuring Relays and<br>Protection Equipment<br>Part 27 : Product safety<br>requirements                                                      | 0.9 ~ 1 A,<br>≥ 5 ~ 30 A,<br>500 V ± 10 %,<br>500 V d.c.,<br>12 V r.ms. ac or 12 V<br>d.c.,<br>30 mV ~ 230 V,<br>0.1 Ω or less,<br>10 MΩ or more,<br>100 MΩ or more,<br>≥ 30 ~ 1 000 W<br>at L/R = 40 ms,<br>-40 °C ~ 70 °C,<br>±3 °C,<br>1 °C ± 0.2 °C/min,<br>93 ± 3 %,<br>60 % ± 10 %,<br>97 %, -2 % +3 %,<br>45 ~ 75 % RH,<br>86 ~ 106 kPa,<br>50 Hz or 60 Hz<br>±0.2 % | BS-1 | N                |
| IEC<br>60529:1989+AMD<br>1:1999+AMD2:20<br>13<br>CSV/COR2:2015 | Electrical<br>machinery for<br>industries | Degrees of protection<br>provided by enclosures<br>(IP Code)                                                                                  | IP1X - IP6X<br>IPX1 - IPX9                                                                                                                                                                                                                                                                                                                                                  | BS-1 | N                |
| IEC 60745-1:2006                                               | Electrical<br>machinery for<br>industries | Hand-held motor-<br>operated electric tools -<br>Safety<br>- Part 1 : General<br>requirements                                                 | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less                                                                                                                                                                                                                                                                                                           | BS-1 | N                |
| IEC 60745-2-<br>14:2010                                        | Electrical<br>machinery for<br>industries | Hand-held motor-<br>operated electric tools -<br>Safety<br>- Part 2-14 : Particular<br>requirements for planers                               | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less                                                                                                                                                                                                                                                                                                           | BS-1 | N                |
| IEC 60745-2-<br>1:2008                                         | Electrical<br>machinery for<br>industries | Hand-held motor-<br>operated electric tools -<br>Safety<br>- Part 2-1 : Particular<br>requirements for drills<br>and impact drills            | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less                                                                                                                                                                                                                                                                                                           | BS-1 | N                |
| IEC 60745-2-<br>2:2008                                         | Electrical<br>machinery for<br>industries | Hand-held motor-<br>operated electric tools -<br>Safety<br>- Part 2-2 : Particular<br>requirements for<br>screwdrivers and impact<br>wrenches | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less                                                                                                                                                                                                                                                                                                           | BS-1 | N                |

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|----------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------|------------------|
| IEC 60745-2-3:2012         | Electrical<br>machinery for<br>industries | Hand-held motor-operated electric tools - Safety<br>- Part 2-3 : Particular requirements for grinders polishers and disk-type sanders                                                    | single phase : 250 V or less<br>three phase : 440 V or less  | BS-1 | N                |
| IEC 60745-2-4:2008         | Electrical<br>machinery for<br>industries | Hand-held motor-operated electric tools - Safety<br>- Part 2-4 : Particular requirements for sanders and polishers other than disk type                                                  | single phase : 250 V or less<br>three phase : 440 V or less  | BS-1 | N                |
| IEC 60745-2-5:2010         | Electrical<br>machinery for<br>industries | Hand-held motor-operated electric tools - Safety<br>- Part 2-5 : Particular requirements for circular saws                                                                               | single phase : 250 V or less<br>three phase : 440 V or less  | BS-1 | N                |
| IEC 60825-1:2014           | Electrical<br>machinery for<br>industries | Safety of laser products<br>- Part 1 : Equipment classification and requirements                                                                                                         | wavelength : (250 ~ 2 500) nm<br>Optical power : 1 W or less | BS-1 | N                |
| IEC 60825-2:2010           | Electrical<br>machinery for<br>industries | Safety of laser products<br>- Part 2 : Safety of optical fibre communication systems(OFCS)                                                                                               | wavelength : (250 ~ 2 500) nm<br>Optical power : 1 W or less | BS-1 | N                |
| IEC 60974-1:2012           | Electrical<br>machinery for<br>industries | Arcwelding equipment<br>- Part 1 : Welding power sources                                                                                                                                 | AC 400 V or less                                             | BS-1 | N                |
| IEC 61010-1:2010+AMD1:2016 | Electrical<br>machinery for<br>industries | Safety requirements for electrical equipment for measurement control and laboratory use<br>- Part 1 : General requirements                                                               | AC 600 V or less                                             | BS-1 | N                |
| IEC 61010-2-010:2019       | Electrical<br>machinery for<br>industries | Safety requirements for electrical equipment for measurement, control and laboratory use<br>- Part 2-010 : Particular requirements for laboratory equipment for the heating of materials | AC 600 V or less                                             | BS-1 | N                |

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|----------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|
| IEC 61010-2-011:2016 | Electrical machinery for industries | Safety requirements for electrical equipment for measurement, control, and laboratory use<br>- Part 2-011 : Particular requirements for refrigerating equipment                                                            | AC 600 V or less | BS-1 | N                |
| IEC 61010-2-020:2016 | Electrical machinery for industries | Safety requirements for electrical equipment for measurement, control, and laboratory use<br>- Part 2-020 : Particular requirements for laboratory centrifuges                                                             | AC 600 V or less | BS-1 | N                |
| IEC 61010-2-040:2020 | Electrical machinery for industries | Safety requirements for electrical equipment for measurement, control, and laboratory use<br>- Part 2-040 : Particular requirements for sterilizers and Washer-disinfectors used to treat medical materials                | AC 600 V or less | BS-1 | N                |
| IEC 61010-2-051:2018 | Electrical machinery for industries | Safety requirements for electrical equipment for measurement, control, and laboratory use<br>- Part 2-051 : Particular requirements for laboratory equipment for mixing and stirring                                       | AC 600 V or less | BS-1 | N                |
| IEC 61010-2-081:2019 | Electrical machinery for industries | Safety requirements for electrical equipment for measurement, control and laboratory use<br>- Part 2 - 081 : Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes | AC 600 V or less | BS-1 | N                |
| IEC 61010-2-101:2018 | Electrical machinery for industries | Safety requirements for electrical equipment for measurement, control, and laboratory use<br>- Part 2 - 101 : Particular requirements for in vitro diagnostic(IVD) medical equipment                                       | AC 600 V or less | BS-1 | N                |
| IEC 61558-1:2009     | Electrical machinery for industries | Safety of power transformers power supply units and similar<br>- Part 1 : General requirements and tests                                                                                                                   | AC 1 kV or less  | BS-1 | N                |

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|---------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|------------------|
| IEC 61558-2-16:2013 | Electrical<br>machinery for<br>industries | Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2 - 16 : Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units              | AC 1 kV or less | BS-1 | N                |
| IEC 61558-2-1:2007  | Electrical<br>machinery for<br>industries | Safety of power transformers power supplies reactors and similar products - Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications                                       | AC 1 kV or less | BS-1 | N                |
| IEC 61558-2-2:2007  | Electrical<br>machinery for<br>industries | Safety of power transformers power supplies reactors and similar products - Particular requirements and tests for control transformers and power supplies incorporating control transformers                                                                      | AC 1 kV or less | BS-1 | N                |
| IEC 61558-2-4:2009  | Electrical<br>machinery for<br>industries | Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2 - 4 : Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers               | AC 1 kV or less | BS-1 | N                |
| IEC 61558-2-6:2009  | Electrical<br>machinery for<br>industries | Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2 - 6 : Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers | AC 1 kV or less | BS-1 | N                |

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|-------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61850-10:2012 | Electrical machinery for industries | Communication networks and systems in substations - Part 10 : Conformance testing                                                                                                                                                  | - Client(Edition 2 interface, Edition 2 Amendment 1 interface)<br>- Server(Edition 2 interface, Edition 2 Amendment 1 interface) | BS-1 | N                |
| IEC 62052-11:2003 | Electrical machinery for industries | Electricity metering equipment(AC) - General requirements tests and test conditions<br>- Part 11 : Metering equipment<br>- 5.8. Resistance to heat and fire<br>- 5.9. Protection against penetration of dust and water             | AC 600 V or less                                                                                                                 | BS-1 | N                |
| IEC 62053-11:2003 | Electrical machinery for industries | Electricity metering equipment(a.c.) - Particular requirements - Part 11 : Electro mechanical meters for active energy (classes 0.5 1 and 2)<br>- 5. Resistance to heat and fire, Protection against penetration of dust and water | AC 600 V or less                                                                                                                 | BS-1 | N                |
| IEC 62053-21:2003 | Electrical machinery for industries | Electricity metering equipment(a.c.) - Particular requirements - Part 21 : Static meters for active energy (classes 1 and 2)<br>- 5. Resistance to heat and fire, Protection against penetration of dust and water                 | AC 600 V or less                                                                                                                 | BS-1 | N                |
| IEC 62053-22:2003 | Electrical machinery for industries | Electricity metering equipment(a.c.) - Particular requirements - Part 22 : Static meters for active (classes 0.2 S and 0.5 S)<br>- 5. Resistance to heat and fire, Protection against penetration of dust and water                | AC 600 V or less                                                                                                                 | BS-1 | N                |

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|--------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 62053-23:2003        | Electrical machinery for industries | Electricity metering equipment(a.c.) - Particular requirements - Part 23 : Static meters for reactive (classes 2 and 3) - 5. Resistance to heat and fire, Protection against penetration of dust and water | AC 600 V or less                                                                                            | BS-1 | N                |
| IEC TS 60079-46:2017     | Electrical machinery for industries | Explosive atmospheres - Part 46: Equipment assemblies                                                                                                                                                      | Surface Temp.: (-60 ~ +500) °C                                                                              | BS-1 | N                |
| IEC/IEEE 60079-30-1:2015 | Electrical machinery for industries | Explosive atmosphere - Part 30-1: Electrical resistance trace heating - General and testing requirements                                                                                                   | Dielectric test: (AC/DC) 5 kV or less<br>Start-up Current: 40 A or less<br>Surface Temp.: (-60 ~ +1 000) °C | BS-1 | N                |
| IEEE C37.90:2005         | Electrical machinery for industries | IEEE Standard for Relays and Relay Systems Associated with Electric Power Apparatus                                                                                                                        | Rated Current Input : 32 A or less<br>Rated Voltage Input : 300 V or less                                   | BS-1 | N                |
| IEEE Std 1815-2012       | Electrical machinery for industries | IEEE Standard for Electric Power Systems Communications-Distributed Network Protocol (DNP3)                                                                                                                | CN-ASE2000K<br>BCOM-USB RTU                                                                                 | BS-1 | N                |
| IEEE Std 2030.5-2018     | Electrical machinery for industries | IEEE Standard for Smart Energy Profile Application Protocol                                                                                                                                                | All                                                                                                         | BS-1 | N                |
| ISO 15118-20:2022        | Electrical machinery for industries | Road vehicles - Vehicle to grid communication interface - Part 20: 2nd generation network layer and application layer requirements                                                                         | -                                                                                                           | BS-1 | N                |
| ISO 20653:2013           | Electrical machinery for industries | Road vehicles - Degrees of protection (IP code) - Protection of electrical equipment against foreign objects, water and access<br><Exception><br>IPX4K, IPX6K                                              | IP1X - IP6XK,<br>IPX1 - IPX9K<br><Exception><br>IPX4K, IPX6K                                                | BS-1 | N                |
| ISO 80079-36:2019        | Electrical machinery for industries | Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements                                                                                        | Max. 15 600 V, Max. 2 000 A,<br>Surface Temp.: (-60 ~ +1 000) °C                                            | BS-1 | N                |



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|----------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------|------------------|
| ISO 80079-37:2016    | Electrical machinery for industries | Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k" | Max. 15 600 V, Max. 2 000 A, Surface Temp.: (-60 ~ +500) °C, 1 MPa | BS-1 | N                |
| ISO/IEC 15118-3:2015 | Electrical machinery for industries | Road vehicles — Vehicle to grid communication interface -- Part 3: Physical and data link layer requirements                                                                                             | -                                                                  | BS-1 | N                |
| ISO/IEC 15118-4:2018 | Electrical machinery for industries | Road vehicles — Vehicle to grid communication interface -- Part 4: Network and application protocol conformance test<br>8.2 SECC test cases<br>9.2 SECC test cases<br>10.2 SECC test cases               | -                                                                  | BS-1 | N                |
| ISO/IEC 15118-5:2018 | Electrical machinery for industries | Road vehicles — Vehicle to grid communication interface -- Part 5: Physical layer and data link layer conformance test<br>8.3 SECC + PLC bridge test cases                                               | -                                                                  | BS-1 | N                |
| K 60974-11:2009      | Electrical machinery for industries | Arc welding equipment - Part 11 : Electrode holders                                                                                                                                                      | 250 A or less<br>30 V or less load                                 | BS-1 | N                |
| K 60974-12:2009      | Electrical machinery for industries | Arc welding equipment - Part 12 : Coupling devices for welding cables                                                                                                                                    | 250 A or less<br>30 V or less load                                 | BS-1 | N                |
| K 60974-1:2009       | Electrical machinery for industries | Arc welding equipment - Part 1 : Welding power sources                                                                                                                                                   | AC 400 V or less                                                   | BS-1 | N                |
| K 60974-2:2009       | Electrical machinery for industries | Arc welding equipment - Part 2 : Liquid cooling systems                                                                                                                                                  | 250 A or less<br>30 V or less load                                 | BS-1 | N                |
| K 60974-3:2009       | Electrical machinery for industries | Arc welding equipment - Part 3 : Arc striking and stabilizing devices                                                                                                                                    | 250 A or less<br>30 V or less load                                 | BS-1 | N                |
| K 60974-4:2009       | Electrical machinery for industries | Arc welding equipment - Part 4 : In-service inspection and testing                                                                                                                                       | 250 A or less<br>30 V or less load                                 | BS-1 | N                |

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|------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------|------------------|
| K 60974-5:2009         | Electrical<br>machinery for<br>industries | Arc welding equipment<br>- Part 5 : Wire feeders                                                                                                                               | 250 A or less<br>30 V or less load                                | BS-1 | N                |
| K 60974-7:2009         | Electrical<br>machinery for<br>industries | Arc welding equipment<br>- Part 7 : Torches                                                                                                                                    | 250 A or less<br>30 V or less load                                | BS-1 | N                |
| K 60974-8:2009         | Electrical<br>machinery for<br>industries | Arc welding equipment<br>- Part 8 : Gas consoles<br>for welding and plasma<br>cutting systems                                                                                  | 250 A or less<br>30 V or less load                                | BS-1 | N                |
| K 61558-2-6:2015       | Electrical<br>machinery for<br>industries | Safety of power<br>transformers, power<br>supply units and similar<br>devices - Part 2 :<br>Particular requirements<br>for safety isolating<br>transformers for general<br>use | AC 1 kV or less                                                   | BS-1 | N                |
| KC 60529:2015          | Electrical<br>machinery for<br>industries | Degrees of Protection<br>Provided by<br>Enclosures(IP code)                                                                                                                    | IP1X - IP6X<br>IPX1 - IPX9                                        | BS-1 | N                |
| KC 60745-1:2015        | Electrical<br>machinery for<br>industries | Hand-held motor-<br>operated electric tools<br>-Safety - Part 1 : General<br>requirements                                                                                      | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less | BS-1 | N                |
| KC 60745-1:2022        | Electrical<br>machinery for<br>industries | Hand-held motor-<br>operated electric tools<br>-Safety - Part 1 : General<br>requirements                                                                                      | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less | BS-1 | N                |
| KC 60745-2-<br>11:2015 | Electrical<br>machinery for<br>industries | Hand-held motor-<br>operated electric tools -<br>Part 2-11 : particular<br>requirements for<br>hammers                                                                         | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less | BS-1 | N                |
| KC 60745-2-<br>12:2015 | Electrical<br>machinery for<br>industries | Hand-held motor-<br>operated electric tools -<br>Part 2-12 : particular<br>requirements for<br>concrete vibrators                                                              | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less | BS-1 | N                |
| KC 60745-2-<br>13:2015 | Electrical<br>machinery for<br>industries | Hand-held motor-<br>operated electric tools -<br>Part 2-13 : particular<br>requirements for chain<br>saws                                                                      | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less | BS-1 | N                |
| KC 60745-2-<br>13:2022 | Electrical<br>machinery for<br>industries | Hand-held motor-<br>operated electric tools -<br>Part 2-13 : particular<br>requirements for chain<br>saws                                                                      | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less | BS-1 | N                |

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| Test method        | Materials/<br>Products              | Standard<br>designation                                                                                            | Test range                                                  | Site | Field<br>testing |
|--------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|------------------|
| KC 60745-2-14:2015 | Electrical machinery for industries | Hand-held motor-operated electric tools - Safety - Part 2-14 : Particular requirements for planers                 | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-14:2022 | Electrical machinery for industries | Hand-held motor-operated electric tools - Safety - Part 2-14 : Particular requirements for planers                 | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-15:2015 | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-15 : particular requirements for hedge trimmers                   | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-15:2022 | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-15 : particular requirements for hedge trimmers                   | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-16:2015 | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-16 : particular requirements for tackers                          | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-16:2022 | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-16 : particular requirements for tackers                          | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-17:2015 | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-17 : particular requirements for routers and trimmers             | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-17:2022 | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-17 : particular requirements for routers and trimmers             | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-1:2015  | Electrical machinery for industries | Hand-held motor-operated electric tools - Safety - Part 2-1 : Particular requirements for drills and impact drills | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-1:2022  | Electrical machinery for industries | Hand-held motor-operated electric tools - Safety - Part 2-1 : Particular requirements for drills and impact drills | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |

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| Test method       | Materials/<br>Products              | Standard<br>designation                                                                                                              | Test range                                                  | Site | Field<br>testing |
|-------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|------------------|
| KC 60745-2-2:2015 | Electrical machinery for industries | Hand-held motor-operated electric tools - Safety - Part 2-2 : Particular requirements for screwdrivers and impact wrenches           | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-2:2022 | Electrical machinery for industries | Hand-held motor-operated electric tools - Safety - Part 2-2 : Particular requirements for screwdrivers and impact wrenches           | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-3:2015 | Electrical machinery for industries | Hand-held motor-operated electric tools - Safety - Part 2-3 : Particular requirements for grinders, polishers and disk-type sanders  | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-4:2015 | Electrical machinery for industries | Hand-held motor-operated electric tools - Safety - Part 2-4 : Particular requirements for sanders and polishers other than disk type | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-5:2016 | Electrical machinery for industries | Hand-held motor-operated electric tools - Safety - Part 2-5 : electricity Particular requirements for circular saws                  | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-6:2015 | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-6 : particular requirements for hammers                                             | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-6:2022 | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-6 : particular requirements for hammers                                             | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-8:2015 | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-8 : particular requirements for shears and nibblers                                 | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-8:2022 | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-8 : particular requirements for shears and nibblers                                 | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |

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| Test method        | Materials/<br>Products              | Standard<br>designation                                                                                                 | Test range                                                  | Site | Field<br>testing |
|--------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|------------------|
| KC 60745-2-9:2015  | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-9 : particular requirements for tappers                                | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60745-2-9:2022  | Electrical machinery for industries | Hand-held motor-operated electric tools - Part 2-9 : particular requirements for tappers                                | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 60974-6:2015    | Electrical machinery for industries | Arc welding equipment - Part 6 : Limited duty manual metal arc welding power sources                                    | 250 A or less<br>30 V or less load                          | BS-1 | N                |
| KC 61029-1:2015    | Electrical machinery for industries | Safety of transportable motor-operated electric tools - Part 1 : general requirements                                   | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 61029-2-10:2015 | Electrical machinery for industries | Safety of transportable motor-operated electric tools - Part 2-10 : particular requirements for cutting-off grinders    | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 61029-2-1:2015  | Electrical machinery for industries | Safety of transportable motor-operated electric tools - Part 2-1 : particular requirements for circular saws            | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 61029-2-2:2015  | Electrical machinery for industries | Safety of transportable motor-operated electric tools - Part 2-2 : particular requirements for radial arm saws          | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 61029-2-3:2015  | Electrical machinery for industries | Safety of transportable motor-operated electric tools - Part 2-3 : particular requirements for planers and thicknessers | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 61029-2-4:2015  | Electrical machinery for industries | Safety of transportable motor-operated electric tools - Part 2-4 : particular requirements for bench grinders           | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |
| KC 61029-2-5:2015  | Electrical machinery for industries | Safety of transportable motor-operated electric tools - Part 2-5 : particular requirements for band saws                | single phase : 250 V or less<br>three phase : 440 V or less | BS-1 | N                |

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| Test method        | Materials/<br>Products                    | Standard<br>designation                                                                                                                                             | Test range                                                        | Site | Field<br>testing |
|--------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------|------------------|
| KC 61029-2-6:2015  | Electrical<br>machinery for<br>industries | Safety of transportable<br>motor-operated electric<br>tools - Part 2-6 :<br>particular requirements<br>for diamond drills with<br>water supply                      | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less | BS-1 | N                |
| KC 61029-2-7:2015  | Electrical<br>machinery for<br>industries | Safety of transportable<br>motor-operated electric<br>tools - Part 2-7 :<br>particular requirements<br>for diamond saws with<br>water supply                        | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less | BS-1 | N                |
| KC 61029-2-8:2015  | Electrical<br>machinery for<br>industries | Safety of transportable<br>motor-operated electric<br>tools - Part 2-8 :<br>particular requirements<br>for single spindle vertical<br>moulders                      | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less | BS-1 | N                |
| KC 61029-2-9:2015  | Electrical<br>machinery for<br>industries | Safety of transportable<br>motor-operated electric<br>tools - Part 2-9 :<br>particular requirements<br>for mitre saws                                               | single phase : 250 V or<br>less<br>three phase : 440 V or<br>less | BS-1 | N                |
| KC 61558-1:2015    | Electrical<br>machinery for<br>industries | Safety of power<br>transformers, power<br>supply units and similar -<br>Part 1 : General<br>requirements and tests                                                  | AC 1 kV or less                                                   | BS-1 | N                |
| KC 61558-2-13:2015 | Electrical<br>machinery for<br>industries | Safety of power<br>transformers, power<br>supply units and similar<br>devices - Part 2-13 :<br>Particular requirements<br>for auto transformers<br>for general use  | AC 1 kV or less                                                   | BS-1 | N                |
| KC 61558-2-17:2015 | Electrical<br>machinery for<br>industries | Safety of power<br>transformers, power<br>supply units and similar -<br>Part 2-17: Particular<br>requirements for<br>transformers for switch<br>mode power supplies | AC 1 kV or less                                                   | BS-1 | N                |
| KC 61558-2-1:2015  | Electrical<br>machinery for<br>industries | Safety of power<br>transformers, power<br>supply units and similar -<br>Part 2 : Particular<br>requirements for<br>separating transformers<br>for general use       | AC 1 kV or less                                                   | BS-1 | N                |

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| Test method            | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                                          | Test range                                                                               | Site | Field<br>testing |
|------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------|------------------|
| KC 61558-2-2:2015      | Electrical machinery for industries | Safety of power transformers, power supply units and similar - Part 2-2 : Particular requirements for control transformers                                                                                                                       | AC 1 kV or less                                                                          | BS-1 | N                |
| KC 61558-2-4:2015      | Electrical machinery for industries | Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers | AC 1 kV or less                                                                          | BS-1 | N                |
| KS C 1214:2010         | Electrical machinery for industries | Static meters for active/reactive energy( class 0.2, 0.5, 1.0, 2.0 for active energy and class 2.0, 3.0 for reactive energy )<br>- 7.22. Protection against penetration of dust and water<br>- 7.23. Resistance to heat and fire                 | AC 600 V or less                                                                         | BS-1 | N                |
| KS C IEC 60079-0:2019  | Electrical machinery for industries | Explosive atmosphere - Part 0 : Equipment-General requirements <Exception><br>26.11 Resistance to chemical agents                                                                                                                                | Max. 15 600 V, Max. 2 000 A,<br>Surface Temp.: (-60 ~ +1 000) °C                         | BS-1 | N                |
| KS C IEC 60079-11:2011 | Electrical machinery for industries | Explosive atmospheres - Part 11 : Equipment protection by intrinsic safety "i"                                                                                                                                                                   | Max. 15 600 V, Max. 2 000 A,<br>Surface Temp.: (-60 ~ +1 000) °C                         | BS-1 | N                |
| KS C IEC 60079-13:2017 | Electrical machinery for industries | Explosive atmospheres - Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v"                                                                                                                               | Surface Temp.: (-60 ~ +500) °C<br>Maximum Pressure: 15 kPa<br>Maximum Flow Rate: 300 LPM | BS-1 | N                |
| KS C IEC 60079-15:2017 | Electrical machinery for industries | Explosive atmospheres - Part 15 : Equipment protection by type of protection "n"                                                                                                                                                                 | Max. 15 000 V, Max. 2 000 A,<br>Surface Temp.: (-60 ~ +500) °C                           | BS-1 | N                |
| KS C IEC 60079-18:2014 | Electrical machinery for industries | Explosive atmospheres - Part 18 : Equipment protection by encapsulation "m"                                                                                                                                                                      | Max. 15 000 V, Max. 2 000 A,<br>Surface Temp.: (-60 ~ +500) °C                           | BS-1 | N                |



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| Test method              | Materials/<br>Products              | Standard<br>designation                                                                                                                                          | Test range                                                                                                  | Site | Field<br>testing |
|--------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 60079-1:2019    | Electrical machinery for industries | Explosive atmospheres - Part 1 : Equipment protection by flameproof enclosures "d"                                                                               | Max. 13 640 V, Max. 2 000 A, Max. Overpressure: 10 MPa, Surface Temp.: (-60 ~ +500) °C                      | BS-1 | N                |
| KS C IEC 60079-26:2021   | Electrical machinery for industries | Explosive atmospheres - Part 26 : Equipment With Separation Elements or combined Levels of Protection                                                            | Max. 15 600 V, Max. 2 000 A, Surface Temp.: (-60 ~ +500) °C                                                 | BS-1 | N                |
| KS C IEC 60079-28:2015   | Electrical machinery for industries | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation <Exception><br>6.2 Reference test<br>6.3 Test mixtures | 1 µW ~ 3 W                                                                                                  | BS-1 | N                |
| KS C IEC 60079-2:2014    | Electrical machinery for industries | Explosive atmospheres - Part 2 : Equipment protection by pressurized enclosure "p"                                                                               | Max. 13 640 V, Max. 2 000 A, Max. Pressure: 15 kPa, Max. Flowrate: 300 LPM, Surface Temp.: (-60 ~ +500) °C  | BS-1 | N                |
| KS C IEC 60079-30-1:2007 | Electrical machinery for industries | Explosive atmosphere - Part 30-1: Electrical resistance trace heating - General and testing requirements                                                         | Dielectric test: (AC/DC) 5 kV or less<br>Start-up Current: 40 A or less<br>Surface Temp.: (-60 ~ +1 000) °C | BS-1 | N                |
| KS C IEC 60079-31:2013   | Electrical machinery for industries | Explosive atmospheres - Part 31 : Equipment dust ignition protection by enclosure "t"                                                                            | 15 600 V 이하<br>2 000 A 이하<br>표면온도: (-60 ~ +500) °C                                                          | BS-1 | N                |
| KS C IEC 60079-5:2015    | Electrical machinery for industries | Explosive atmospheres - Part 5 : Equipment protection by powder filling "q"                                                                                      | Max. 1 000 V, Max. 16 A, Max. Overpressure: 1 MPa, Surface Temp.: (-60 ~ +500) °C                           | BS-1 | N                |
| KS C IEC 60079-6:2015    | Electrical machinery for industries | Explosive atmospheres - Part 6 : Equipment protection by liquid immersion "o"                                                                                    | Max. 13 640 V, Max. 2 000 A, Max. Overpressure: 1 MPa, Surface Temp.: (-60 ~ +500) °C                       | BS-1 | N                |



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| Test method            | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                      | Test range                                                                                                                                                                                                                                                                                                                                       | Site | Field<br>testing |
|------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 60079-7:2015  | Electrical machinery for industries | Explosive atmospheres - Part 7 : Equipment protection by increased safety "e"<br><Exception><br>6.2 Rotating electrical machines<br>Annex A Temperature determination of electrical machines | Max. 13 640 V, Max. 2 000 A,<br>Surface Temp.: (-60 ~ +500) °C                                                                                                                                                                                                                                                                                   | BS-1 | N                |
| KS C IEC 60255-1:2014  | Electrical machinery for industries | Measuring Relays and Protection Equipment<br>Part 1: Common requirements                                                                                                                     | 0.9 ~ 1 A,<br>≥5 ~ 30 A,<br>500 V ± 10 %,<br>500 V d.c.,<br>12 V rms. ac or 12 V d.c.,<br>30 mV ~ 230 V,<br>≤0.1 Ω,<br>≥10 MΩ,<br>≥100 MΩ,<br>≥30 ~ 1 000 W<br>at L/R = 40 ms,<br>-40 °C ~ 70 °C,<br>±3 °C,<br>1 °C ± 0.2 °C/min,<br>93 ± 3 %,<br>60 % ± 10 %,<br>97 %, -2 % +3 %,<br>45 ~ 75 % RH,<br>86 ~ 106 kPa,<br>50 Hz or 60 Hz<br>±0.2 % | BS-1 | N                |
| KS C IEC 60255-27:2015 | Electrical machinery for industries | Measuring Relays and Protection Equipment<br>Part 27: Product safety requirements                                                                                                            | 0.9 ~ 1 A,<br>≥5 ~ 30 A,<br>500 V ± 10 %,<br>500 V d.c.,<br>12 V rms. ac or 12 V d.c.,<br>30 mV ~ 230 V,<br>≤0.1 Ω,<br>≥10 MΩ,<br>≥100 MΩ,<br>≥30 ~ 1 000 W<br>at L/R = 40 ms,<br>-40 °C ~ 70 °C,<br>±3 °C,<br>1 °C ± 0.2 °C/min,<br>93 ± 3 %,<br>60 % ± 10 %,<br>97 %, -2 % +3 %,<br>45 ~ 75 % RH,<br>86 ~ 106 kPa,<br>50 Hz or 60 Hz<br>±0.2 % | BS-1 | N                |
| KS C IEC 60529:2017    | Electrical machinery for industries | Degrees of Protection<br>Provided by Enclosures(IP code)                                                                                                                                     | IP1X - IP6X<br>IPX1 - IPX9                                                                                                                                                                                                                                                                                                                       | BS-1 | N                |

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| Test method            | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                                | Test range                                                  | Site | Field<br>testing |
|------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|------------------|
| KS C IEC 60825-1:2017  | Electrical machinery for industries | Safety of laser products - Part 1 : Equipment classification and requirements                                                                                                                                                          | wavelength : (250 ~ 2500) nm<br>power : 1 W or less         | BS-1 | N                |
| KS C IEC 60825-2:2015  | Electrical machinery for industries | Safety of laser products -Part 2 : Safety of optical fibre communication systems (OFCS)                                                                                                                                                | wavelength : (250 ~ 2500) nm<br>Optical power : 1 W or less | BS-1 | N                |
| KS C IEC 61850-10:2006 | Electrical machinery for industries | Communication networks and systems in substations - Part 10 : Conformance testing                                                                                                                                                      | UC Alug Server & Client                                     | BS-1 | N                |
| KS C IEC 62052-11:2005 | Electrical machinery for industries | Electricity metering equipment(AC)-General requirements, tests and test conditions<br>- Part 11 : Metering equipment<br>- 5.8. Resistance to heat and fire<br>- 5.9. Protection against penetration of dust and water                  | AC 600 V or less                                            | BS-1 | N                |
| KS C IEC 62053-11:2003 | Electrical machinery for industries | Electricity metering equipment(AC)-Particular requirements - Part 11 : Electro mechanical meters for active energy (Classes 0.5, 1 and 2) - 5.6. Instrument stacked with insulating case of protection class II<br>- 5.7. nonflammable | AC 600 V or less                                            | BS-1 | N                |
| KS C IEC 62053-21:2003 | Electrical machinery for industries | Electricity metering equipment(AC)-Particular requirements - Part 21 : Static meters for active energy (Classes 1 and 2)<br>- 5.2.4. Resistance to heat and fire<br>- 5.2.5. Protection against penetration of dust and water          | AC 600 V or less                                            | BS-1 | N                |

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| Test method            | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                               | Test range       | Site | Field<br>testing |
|------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|
| KS C IEC 62053-22:2003 | Electrical machinery for industries | Electricity metering equipment(AC)-<br>Particular requirements -<br>Part 22 : Static meters for active (Classes 0.2 S and 0.5 S)<br>- 5.2.4. Resistance to heat and fire<br>- 5.2.5. Protection against penetration of dust and water | AC 600 V or less | BS-1 | N                |
| KS C IEC 62053-23:2005 | Electrical machinery for industries | Electricity metering equipment(AC)-<br>Particular requirements -<br>Part 23 : Static meters for reactive (Classes 2 and 3)<br>- 5. Resistance to heat and fire, Protection against penetration of dust and water                      | AC 600 V or less | BS-1 | N                |
| KS R ISO 15118-3:2021  | Electrical machinery for industries | Road vehicles — Vehicle to grid communication interface -- Part 3: Physical and data link layer requirements                                                                                                                          | -                | BS-1 | N                |
| KS R ISO 15118-4:2020  | Electrical machinery for industries | Road vehicles — Vehicle to grid communication interface -- Part 4: Network and application protocol conformance test<br>8.2 SECC test cases<br>9.2 SECC test cases<br>10.2 SECC test cases                                            | -                | BS-1 | N                |
| KS R ISO 15118-5:2020  | Electrical machinery for industries | Road vehicles — Vehicle to grid communication interface -- Part 5: Physical layer and data link layer conformance test<br>8.3 SECC + PLC bridge test cases                                                                            | -                | BS-1 | N                |
| OCPP 1.6:2017          | Electrical machinery for industries | Open Charge Point Protocol 1.6                                                                                                                                                                                                        | -                | BS-1 | N                |
| OCPP 2.0.1:2022        | Electrical machinery for industries | Open Charge Point Protocol 2.0.1                                                                                                                                                                                                      | -                | BS-1 | N                |

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| Test method                                            | Materials/<br>Products              | Standard<br>designation                                                                                                                | Test range                                                                                                         | Site | Field<br>testing |
|--------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------|------------------|
| SPS-KEMC 1120-0579:2018                                | Electrical machinery for industries | Digital protective relay                                                                                                               | AC 220 V or less<br>Impulse 5 kV or less<br>Dielectric test 2 kV or less<br>Insulation resistance 100 Mohm or more | BS-1 | N                |
| MOTIE Notice No.2018-206(11.20.2018.)                  | Electrical machinery for industries | Watt-hour meters technical standards<br>12.5 Heat and fire history<br>12.6 Protection against penetration of dust / water              | AC 600 V or less                                                                                                   | BS-1 | N                |
| Kepco registered purchase standard (GS-6625-0015:2010) | Electrical machinery for industries | Static Meters for Low Voltage<br>- 7.4.7.4. Resistance to heat and fire<br>- 7.4.7.5. Protect from dust and water penetration          | AC 600 V or less                                                                                                   | BS-1 | N                |
| Kepco registered purchase standard (GS-6625-0060:2018) | Electrical machinery for industries | Solid State Recording Electronic Meter<br>- 7.3.7.4. Resistance to heat and fire<br>- 7.3.7.5. Protect from dust and water penetration | AC 600 V or less                                                                                                   | BS-1 | N                |
| Kepco registered purchase standard (GS-6625-0061:2017) | Electrical machinery for industries | E-Type Static Meters for Low Voltage<br>- 7.4.7. Heat and fireproof, dustproof and waterproof                                          | AC 600 V or less                                                                                                   | BS-1 | N                |

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## 03. Electrical Testing

### 03.007 Electrical machinery for households

| Test method                  | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                   | Test range                                                                                                                                       | Site | Field<br>testing |
|------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ABNT NBR IEC<br>60065:2009   | Electrical<br>machinery for<br>households | Audio Video and similar<br>electronic apparatus -<br>Safety requirements                                                                                                                  | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| ABNT NBR NM<br>60335-1: 2010 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 1 : General<br>requirements                                                                                          | Input : (3 ~ 450) V, 50<br>A                                                                                                                     | BS-1 | N                |
| EN IEC 61851-<br>1:2019      | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive<br>charging system -<br>Part 1: General<br>requirements<br>12.4 IP degrees                                                                                 | AC 770 V or less<br>DC 2 000 V or less                                                                                                           | BS-3 | N                |
| EN IEC 61851-<br>23:2014     | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive charging<br>system - Part 23: DC<br>electric vehicle charging<br>station<br>(EXCEPTION)<br>101.1.2 IP degrees for<br>ingress of objects                    | AC 770 V or less<br>DC 2 000 V or less                                                                                                           | SF-2 | N                |
| EN IEC 61851-<br>23:2014     | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive charging<br>system - Part 23: DC<br>electric vehicle charging<br>station<br>101.1.2 IP degrees for<br>ingress of objects                                   | AC 770 V or less<br>DC 2 000 V or less                                                                                                           | BS-3 | N                |
| EN IEC 61851-24:<br>2014     | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive charging<br>system - Part 24; Digital<br>communication<br>between a d.c. EV<br>charging station and ac<br>electric vehicle for<br>control of d.c. charging | AC 770 V or less<br>DC 2 000 V or less                                                                                                           | SF-2 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method                                                                   | Materials/<br>Products                    | Standard<br>designation                                                   | Test range                                                                                                                                                                                                         | Site | Field<br>testing |
|-------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ES 2501:2016                                                                  | Electrical<br>machinery for<br>households | Audio, video and similar<br>electronic apparatus -<br>safety requirements | Input : AC (3 ~ 450 V),<br>50 A or less<br>Temperature : 200 ℃<br>or less<br>Humidity : 25 ℃, 93 %<br>R.H.<br>Electric strength : 5 kV<br>or less<br>Leakage current : 50<br>mA                                    | BS-1 | N                |
| GS-6130-0053<br>〈Exception〉<br>5.2.13 Integrated<br>system functional<br>test | Electrical<br>machinery for<br>households | Charging Stand for<br>Electric Vehicle                                    | Input : (0 ~ 500) V, 80<br>A<br>Output: (0 ~ 500) V,<br>80 A<br>Temperature : 200 ℃<br>Humidity : (5 ~ 95) %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA                                     | BS-1 | N                |
| GS-6130-0054<br>〈Exception〉<br>5.2.17 Integrated<br>system functional<br>test | Electrical<br>machinery for<br>households | Quick Charger for<br>Electric Vehicle                                     | Input : (0 ~ 500) V,<br>400 A<br>Output: DC (0 ~ 1 000)<br>V, DC 250 A /<br>AC (0 ~ 500) V, 80 A<br>Temperature : 200 ℃<br>Humidity : (5 ~ 95) %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| GS-6130-0057<br>〈Exception〉<br>5.2.16 Integrated<br>system functional<br>test | Electrical<br>machinery for<br>households | Quick Charger for<br>Electric Bus                                         | Input : (0 ~ 500) V,<br>400 A<br>Output: DC (0 ~ 1 000)<br>V, DC 250 A<br>Temperature : 200 ℃<br>Humidity : (5 ~ 95) %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA                           | BS-1 | N                |
| GS-6130-0058<br>〈Exception〉<br>5.2.12 Integrated<br>system functional<br>test | Electrical<br>machinery for<br>households | Pole Type Charger for<br>Electric Vehicle                                 | Input : (0 ~ 500) V, 80<br>A<br>Output: (0 ~ 500) V,<br>80 A<br>Temperature : 200 ℃<br>Humidity : (5 ~ 95) %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA                                     | BS-1 | N                |

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No. KT009

| Test method                | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Test range                                                                                                                                                                                                                               | Site | Field<br>testing |
|----------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IDMS VERSION 1.2           | Display<br>product                        | INFORMATION DISPLAY<br>MEASUREMENTS<br>STANDARDS<br>5. Fundamental<br>Measurements<br>5.3 Full-Screen White<br>5.6 Full-Screen Black<br>5.10 Sequential<br>Contrast<br>5.14 Full-Screen<br>Primary Colors (R, G,<br>and B)<br>5.18 Chromaticity<br>Gamut Area<br>5.19 White-Point<br>Accuracy<br>5.25 Simple Box<br>Measurements<br>5.26 Checkerboard<br>Luminance and Contrast<br>(nxm)<br>6. GRAY-& COLOR-<br>SCALE MEASUREMENTS<br>6.1 GRAY SCALE<br>8. UNIFORMITY<br>MEASUREMENTS<br>8.1 SAMPLED<br>UNIFORMITY<br>9. VIEWING-ANGLE<br>MEASUREMENTS<br>9.1 FOUR-POINT<br>VIEWING ANGLES<br>20. HIGH DYNAMIC<br>RANGE (HDR) | Horizontal angle( $\phi$ ) : (0<br>~ 360) °<br>Vertical angle( $\theta$ ) : (0 ~<br>180) °<br>Correlated color<br>temperature(CCT) : (2<br>580~7 040) K<br>CIE 1931 xy<br>chromaticity<br>Luminance : $\leq 5\,000$<br>cd/m <sup>2</sup> | BS-1 | Y                |
| IEC 60065:2014             | Electrical<br>machinery for<br>households | Audio Video and similar<br>electronic apparatus -<br>Safety requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA                                                                                          | BS-1 | N                |
| IEC 60268-1 Amd<br>2:1988  | Electrical<br>machinery for<br>households | Sound system<br>equipment. - Part 1:<br>General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sensitivity : 50 mV/Pa<br>Frequency : 6.3 Hz ~<br>20 kHz                                                                                                                                                                                 | BS-1 | N                |
| IEC 60268-11<br>Amd 2:1991 | Electrical<br>machinery for<br>households | Sound system<br>equipment - Part 11:<br>Application of<br>connectors for the<br>interconnection of<br>sound system<br>components                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sensitivity : 50 mV/Pa<br>Frequency : 6.3 Hz ~<br>20 kHz                                                                                                                                                                                 | BS-1 | N                |



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| Test method                  | Materials/<br>Products                    | Standard<br>designation                                                                                            | Test range                                                                                                                                       | Site | Field<br>testing |
|------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60268-12<br>Amd 2:1994   | Electrical<br>machinery for<br>households | Sound system<br>equipment. - Part 12:<br>Application of<br>connectors for<br>broadcast and similar<br>use.         | Sensitivity : 50 mV/Pa<br>Frequency : 6.3 Hz ~<br>20 kHz                                                                                         | BS-1 | N                |
| IEC 60268-2 Amd<br>1:1991    | Electrical<br>machinery for<br>households | Sound system<br>equipment. - Part 2:<br>Explanation of general<br>terms and calculation<br>methods                 | Sensitivity : 50 mV/Pa<br>Frequency : 6.3 Hz ~<br>20 kHz                                                                                         | BS-1 | N                |
| IEC 60268-3:2013             | Electrical<br>machinery for<br>households | Sound system<br>equipment - Part 3:<br>Amplifiers                                                                  | Output power : (0 ~ 5<br>000) W                                                                                                                  | BS-1 | N                |
| IEC 60335-1:2010             | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Safety<br>- Part 1 : General<br>requirements      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-<br>1:2010+A1:2013 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Safety<br>- Part 1 : General<br>requirements      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-1:2016             | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances<br>-Safety - Part 1 : General<br>requirements<br>Annex R<br>Annex U | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS   | N                |
| IEC 60335-1:2016             | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Safety<br>- Part 1 : General<br>requirements      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method              | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                   | Test range                                                                                                                                       | Site | Field<br>testing |
|--------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60335-1:2020         | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances<br>-Safety - Part 1 : General<br>requirements<br>Annex R<br>Annex U                                                                        | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA   | BS   | N                |
| IEC 60335-1:2020         | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Safety<br>- Part 1 : General<br>requirements                                                                             | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA   | BS-1 | N                |
| IEC 60335-2-<br>100:2002 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety - Part 2-100 :<br>Particular requirements<br>for hand-held mains-<br>operated garden<br>blowers, vacuums and<br>blower vacuums | Input : 250 V or less,<br>50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-<br>10:2008  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety - Part 2-10 : Particular<br>requirements for floor<br>treatment machines and<br>wet scrubbing machines                         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA   | BS-1 | N                |
| IEC 60335-2-11:<br>2000  | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Part 2-11:<br>Particular requirements<br>for tumble dryers                                                                  | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA   | BS-1 | N                |
| IEC 60335-2-<br>11:2008  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety - Part 2-11 : Particular<br>requirements for tumble<br>dryers                                                                  | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA   | BS-1 | N                |

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No. KT009

| Test method         | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                              | Test range                                                                                                                                     | Site | Field<br>testing |
|---------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60335-2-11:2019 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety - Part 2-11 :<br>Particular requirements<br>for tumble dryers                                                             | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-11:2024 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-11: Particular<br>requirements for tumble<br>dryers                                                           | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-13:2016 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-13 : Particular<br>requirements for deep<br>fat fryers, frying pans<br>and similar appliances                 | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-14:2019 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-14 : Particular<br>requirements for kitchen<br>machines                                                       | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-15:2018 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-15 : Particular<br>requirements for<br>appliances for heating<br>liquids                                      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-17:2019 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-17 : Particular<br>requirements for<br>blankets, pads, clothing<br>and similar flexible<br>heating appliances | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method                 | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                          | Test range                                                                                                                                     | Site | Field<br>testing |
|-----------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60335-2-21:2018         | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-21 : Particular<br>requirements for<br>storage water heaters                                              | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-23:2019         | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-23 : Particular<br>requirements for<br>appliances for skin or<br>hair care                                | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-24:2010+A1:2012 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-24: Particular<br>requirements for<br>refrigerating appliances,<br>ice-cream appliances<br>and ice makers | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-24:2017         | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-24: Particular<br>requirements for<br>refrigerating appliances,<br>ice-cream appliances<br>and ice makers | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-24:2020         | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-24: Particular<br>requirements for<br>refrigerating appliances,<br>ice-cream appliances<br>and ice makers | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-25:2010         | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-25 : Particular<br>requirements for<br>microwave ovens,<br>including combination<br>microwave ovens       | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method         | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                    | Test range                                                                                                                                     | Site | Field<br>testing |
|---------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60335-2-25:2020 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-25 : Particular<br>requirements for<br>microwave ovens,<br>including combination<br>microwave ovens | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-29:2019 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-29 : Particular<br>requirements for battery<br>chargers                                             | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-2:2019  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-2 : Particular<br>requirements for<br>vacuum cleaners and<br>water-suction cleaning<br>appliances   | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-30:2009 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-30 : Particular<br>requirements for room<br>heaters                                                 | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-30:2016 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-30 : Particular<br>requirements for room<br>heaters                                                 | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-31:2018 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-31 : Particular<br>requirements for range<br>hoods and other<br>cooking fume extractors             | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method         | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                              | Test range                                                                                                                                     | Site | Field<br>testing |
|---------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60335-2-32:2013 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-32 : Particular<br>requirements for<br>massage appliances                                                     | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-32:2019 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-32 : Particular<br>requirements for<br>massage appliances                                                     | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-34:2016 | Electrical<br>machinery for<br>households | Household and simila<br>relectrical appliances -<br>Safety<br>- Part 2-34 : Particular<br>requirements for motor-<br>compressors                                                     | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-35:2016 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-35 : Particular<br>requirements for<br>instantaneous water<br>heaters                                         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-35:2020 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-35 : Particular<br>requirements for<br>instantaneous water<br>heaters                                         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-36:2017 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-36 : Particular<br>requirements for<br>commercial electric<br>cooking ranges, ovens,<br>hobs and hob elements | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |



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| Test method         | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                               | Test range                                                                                                                                     | Site | Field<br>testing |
|---------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60335-2-3:2015  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-3 : Particular<br>requirements for electric<br>iron                                                            | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-40:2013 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-40 : Particular<br>requirements for<br>electrical heat pumps,<br>air-conditioners and<br>dehumidifiers         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-40:2018 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-40 : Particular<br>requirements for<br>electrical heat pumps,<br>air-conditioners and<br>dehumidifiers         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-40:2022 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-40 : Particular<br>requirements for<br>electrical heat pumps,<br>air-conditioners and<br>dehumidifiers         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-41:2012 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-41 : Particular<br>requirements for pumps                                                                      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-49:2017 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-49 : Particular<br>requirements for<br>commercial electric<br>appliances for keeping<br>food and crockery warm | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |



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| Test method                  | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                           | Test range                                                                                                                                     | Site | Field<br>testing |
|------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60335-2-4:<br>1993       | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances Part 2-4:<br>Particular requirements<br>for spin extractors                                                           | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-<br>4:2017       | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-4 : Particular<br>requirements for spin<br>extractors                                                      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-<br>53:2017      | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-53 : Particular<br>requirements for sauna<br>heating appliances and<br>infrared cabins                     | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-55<br>am1:2008   | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-55 : Particular<br>requirements for<br>electrical appliances for<br>use With aquariums and<br>garden ponds | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-59<br>am1&2:2009 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-59: Particular<br>requirements for insect<br>killers                                                       | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-<br>5:2018       | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-5 : Particular<br>requirements for dish<br>washer                                                          | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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| Test method         | Materials/<br>Products              | Standard<br>designation                                                                                                                                        | Test range                                                                                                                              | Site | Field<br>testing |
|---------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60335-2-64:2017 | Electrical machinery for households | household and similar electrical appliances - Safety<br>- Part 2-64 : Particular requirements for commercial electric kitchen machines                         | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| IEC 60335-2-65:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-65: Particular requirements for air-cleaning appliances                                       | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| IEC 60335-2-6:2018  | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-6 : Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| IEC 60335-2-75:2018 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-75: Particular requirements for commercial dispensing appliances and vending machines         | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| IEC 60335-2-7: 2000 | Electrical machinery for households | Safety of household and similar electrical appliances - Part 2-7: Particular requirements for washing machines                                                 | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| IEC 60335-2-7:2008  | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-7 : Particular requirements for washing machines                                              | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |

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| Test method         | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                             | Test range                                                                                                                                       | Site | Field<br>testing |
|---------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60335-2-7:2019  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-7 : Particular<br>requirements for<br>washing machines                                                                                                                       | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-7:2024  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety - Part 2-7 :<br>Particular requirements<br>for washing machines                                                                                                                          | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-80:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-80: Particular<br>requirements for fans                                                                                                                                      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-84:2019 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-84: Particular<br>requirements for toilet<br>appliances                                                                                                                      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-89:2019 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-89: Particular<br>requirements for<br>commercial refrigerating<br>appliances and ice-<br>makers with an<br>incorporated or remote<br>refrigerant unit or<br>motor-compressor | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-8:2018  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-8 : Particular<br>requirements for<br>shavers, hair clippers<br>and similar appliances                                                                                       | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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| Test method         | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                    | Test range                                                                                                                                     | Site | Field<br>testing |
|---------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60335-2-90:2019 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-90: Particular<br>requirements for<br>commercial microwave<br>ovens                                 | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-98:2008 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>safety<br>- Part 2-98: Particular<br>requirements for<br>humidifiers                                                   | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| IEC 60335-2-9:2019  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-9 : Particular<br>requirements for grills<br>toasters and similar<br>portable cooking<br>appliances | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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| Test method                                                    | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test range                           | Site | Field<br>testing |
|----------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------|------------------|
| IEC<br>60529:1989+AMD<br>1:1999+AMD2:20<br>13<br>CSV/COR2:2015 | Electrical<br>machinery for<br>households | Degrees of protection<br>provided by<br>enclosures(IP Code)<br>(EXCEPTION)<br>14.2.1 Test for second<br>characteristic numerals<br>1 with the drip box<br>14.2.2 Test for second<br>characteristic numerals<br>2 with the drip box<br>14.2.3 Test for second<br>characteristic numeral 3<br>with oscillating tube or<br>spray nozzle: oscillating<br>tube<br>14.2.4 Test for second<br>characteristic numeral 4<br>with oscillating tube or<br>spray nozzle: oscillating<br>tube<br>14.2.7 Test for second<br>characteristic numeral 7:<br>temporary immersion<br>between 0,15 m and 1<br>m<br>14.2.8 Test for second<br>characteristic numeral 8:<br>continuous immersion<br>subject to agreement<br>14.2.9 Test for second<br>characteristic numerals<br>9 by high pressure and<br>temperature water<br>jetting | IP1X ~ IP6X<br>IPX3 ~ IPX6           | BS-3 | N                |
| IEC 60695-10-<br>2:2014                                        | Electrical<br>machinery for<br>households | Fire hazard testing<br>- Part 10-2 : Abnormal<br>heat - Ball pressure test<br>method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AC 1 000 V or less                   | BS-1 | N                |
| IEC 60695-2-<br>11:2014                                        | Electrical<br>machinery for<br>households | Fire hazard testing<br>- Part 2-11 :<br>Glowing/hot-wire based<br>test method - Glow-wire<br>flammability test<br>method for end-<br>products                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Test temperature : 960<br>°C or less | BS-1 | N                |
| IEC 60695-2-<br>12:2014                                        | Electrical<br>machinery for<br>households | Fire hazard testing<br>- Part 2-12 :<br>Glowing/hot-wire based<br>test methods - Glow-<br>wire flammability index<br>(GWFI) test method for<br>materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Test temperature : 960<br>°C or less | BS-1 | N                |

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| Test method         | Materials/<br>Products              | Standard<br>designation                                                                                                                              | Test range                                                                                                                              | Site | Field<br>testing |
|---------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60695-2-13:2014 | Electrical machinery for households | Fire hazard testing - Part 2-13 :<br>Glowing/hot-wire based test methods - Glow-wire ignition Temperature (GWIT) test method for materials           | Test temperature : 960 °C or less                                                                                                       | BS-1 | N                |
| IEC 60950-1:2013    | Electrical machinery for households | Information technology equipment - safety - Part 1: General requirements                                                                             | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| IEC 61851-1:2010    | Electrical machinery for households | Electric vehicle conductive charging system - Part 1 : General requirements                                                                          | Input : below 600 V                                                                                                                     | BS-1 | N                |
| IEC 61851-1:2017    | Electric vehicle charging system    | Electric vehicle conductive charging system - Part 1: General requirements (EXCEPTION)<br>12.4 IP degrees                                            | AC 770 V or less<br>DC 2 000 V or less                                                                                                  | SF-2 | N                |
| IEC 61851-1:2017    | Electric vehicle charging system    | Electric vehicle conductive charging system - Part 1: General requirements<br>12.4 IP degrees                                                        | AC 770 V or less<br>DC 2 000 V or less                                                                                                  | BS-3 | N                |
| IEC 61851-22:2001   | Electrical machinery for households | Electric vehicle conductive charging system - Part 22 : AC electric vehicle charging system                                                          | Input : below 600 V                                                                                                                     | BS-1 | N                |
| IEC 61851-23:2014   | Electrical machinery for households | Electric vehicle conductive charging system - Part 23: DC electric vehicle charging station                                                          | Input : below 600 V                                                                                                                     | BS-1 | N                |
| IEC 61851-23:2014   | Electric vehicle charging system    | Electric vehicle conductive charging system - Part 23: DC electric vehicle charging station (EXCEPTION)<br>101.1.2 IP degrees for ingress of objects | AC 770 V or less<br>DC 2 000 V or less                                                                                                  | SF-2 | N                |

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| Test method       | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                    | Test range                                                                                                                              | Site | Field<br>testing |
|-------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61851-23:2014 | Electric vehicle charging system    | Electric vehicle conductive charging system - Part 23: DC electric vehicle charging station<br>101.1.2 IP degrees for ingress of objects                                                                                   | AC 770 V or less<br>DC 2 000 V or less                                                                                                  | BS-3 | N                |
| IEC 61851-24:2014 | Electrical machinery for households | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging                                                       | Input : below 600 V                                                                                                                     | BS-1 | N                |
| IEC 61851-24:2014 | Electric vehicle charging system    | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and ac electric vehicle for control of d.c. charging                                                       | AC 770 V or less<br>DC 2 000 V or less                                                                                                  | SF-2 | N                |
| IEC 62040-1:2013  | Electrical machinery for households | Uninterruptible power systems (UPS) - Part 1: General and safety requirements for UPS                                                                                                                                      | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| IEC 62196-1:2014  | Electrical machinery for households | Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1 : General requirements                                                                                    | AC 690 V, 250 A<br>DC 1 500V, 400 A                                                                                                     | BS-1 | N                |
| IEC 62196-2:2016  | Electrical machinery for households | Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2 : Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories | AC 480 V or less<br>three phase 63 A or less<br>single phase 70 A or less                                                               | BS-1 | N                |



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| Test method              | Materials/<br>Products                    | Standard<br>designation                                                                                                                         | Test range                                                                                                                                       | Site | Field<br>testing |
|--------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 62368-1:2010         | Electrical<br>machinery for<br>households | Audio/video information<br>and communication<br>technology equipment -<br>Part 1: Safety<br>requirements                                        | AC/DC 600 V or less                                                                                                                              | BS-1 | N                |
| IEC 62368-1:2014         | Electrical<br>machinery for<br>households | Audio/video information<br>and communication<br>technology equipment -<br>Part 1: Safety<br>requirements                                        | AC/DC 600 V or less                                                                                                                              | BS-1 | N                |
| IEC 62368-1:2018         | Electrical<br>machinery for<br>households | Audio/video information<br>and communication<br>technology equipment -<br>Part 1: Safety<br>requirements<br><Exception><br>10.6.6 Acoustic test | Less than AC/DC 600 V                                                                                                                            | BS-1 | N                |
| IEC 62368-1:2023         | Electrical<br>machinery for<br>households | Audio/video information<br>and communication<br>technology equipment -<br>Part 1: Safety<br>requirements<br>(Exception)<br>10.6.6 Acoustic test | Less than AC/DC 600 V                                                                                                                            | BS-1 | N                |
| IEC 62477-1:2012         | Electrical<br>machinery for<br>households | Safety requirements for<br>power electronic<br>converter systems and<br>equipment - Part 1:<br>General                                          | Input : below 600 V                                                                                                                              | BS-1 | N                |
| ISO/IEC 15118-<br>2:2014 | Electrical<br>machinery for<br>households | Road vehicles — Vehicle<br>- to - Grid<br>Communication<br>Interface - Part 2:<br>Network and application<br>protocol requirements              | L3 ~ L7 Of OSI7-Layer                                                                                                                            | BS-1 | N                |
| K 10002:2006             | Electrical<br>machinery for<br>households | Particular requirements<br>for half baths and<br>similar equipment                                                                              | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10003:2006             | Electrical<br>machinery for<br>households | Particular requirements<br>for foot baths and<br>similar equipment                                                                              | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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| Test method  | Materials/<br>Products                    | Standard<br>designation                                                                                                                   | Test range                                                                                                                                     | Site | Field<br>testing |
|--------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| K 10004:2008 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for<br>electrical beds and<br>similar equipment  | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10007:2008 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for water<br>purifier                            | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10008:2011 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for water<br>ionizer                             | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10009:2008 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for<br>supersonic washers                        | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10010:2008 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for sprout<br>and bean sprout<br>growing devices | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10011:2011 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for<br>electrical door lock                      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method  | Materials/<br>Products                    | Standard<br>designation                                                                                                                              | Test range                                                                                                                                     | Site | Field<br>testing |
|--------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| K 10012:2013 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for health<br>appliances                                    | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10013:2008 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for anti-<br>freezing appliances of a<br>waterworks         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10015:2008 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for water<br>towel rolling machine<br>and similar equipment | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10016:2008 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for water<br>towel packing machine<br>and similar equipment | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10017:2008 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for pet<br>washing machine and<br>similar equipment         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10018:2009 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for sprout<br>and bean sprout<br>growing devices            | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method           | Materials/<br>Products                    | Standard<br>designation                                                                                                                              | Test range                                                                                                                                     | Site | Field<br>testing |
|-----------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| K 10019:2009          | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for<br>electrical door lock                                 | Input : (3 ~ 250) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 10020:2010          | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for health<br>appliances                                    | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 60335-2-<br>81:2009 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for water<br>towel rolling machine<br>and similar equipment | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 60335-2-<br>85:2007 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for water<br>towel packing machine<br>and similar equipment | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 60335-2-9:2013      | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for anti-<br>freezing appliances of a<br>waterworks         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 60950-1:2011        | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for pet<br>washing machine and<br>similar equipment         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method    | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                | Test range                                                                                                                                     | Site | Field<br>testing |
|----------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| K 62040-1:2011 | Electrical<br>machinery for<br>households | Uninterruptible power<br>systems (UPS) - Part 1 :<br>General and safety<br>requirements for UPS                                                                                                                                                                                                                                                                        | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| K 62477-1:2011 | Electrical<br>machinery for<br>households | Safety requirements for<br>power electronic<br>converter systems and<br>equipment - Part 1 :<br>General<br><br>(EXCEPTION)<br>5.2.2.3 Ingress<br>protection test (IP<br>rating)<br>5.2.5.2 High current<br>arcing ignition test<br>5.2.5.3 Glow-wire test<br>5.2.5.5 Flammability test<br>5.2.5.6 Flaming oil test<br>5.2.6.4 Vibration test<br>5.2.6.5 Salt mist test | 전압: AC (0 ~ 765) V,<br>DC (0 ~ 1 500) V                                                                                                        | SF-2 | N                |
| K 62477-1:2011 | Electrical<br>machinery for<br>households | Safety requirements for<br>power electronic<br>converter systems and<br>equipment - Part 1 :<br>General<br><br>5.2.2.3 Ingress<br>protection test (IP<br>rating)<br>5.2.5.2 High current<br>arcing ignition test<br>5.2.5.3 Glow-wire test<br>5.2.5.5 Flammability test<br>5.2.5.6 Flaming oil test<br>5.2.6.4 Vibration test<br>5.2.6.5 Salt mist test                | 전압: AC (0 ~ 765) V,<br>DC (0 ~ 1 500) V                                                                                                        | BS-3 | N                |
| K 62477-1:2011 | Electrical<br>machinery for<br>households | Safety requirements for<br>power electronic<br>converter systems and<br>equipment - Part 1 :<br>General                                                                                                                                                                                                                                                                | 500 V or less (AC and<br>DC input)                                                                                                             | BS-1 | N                |
| K 70000:2008   | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances - Particular<br>requirements for<br>electrical sterilizer and<br>similar equipment                                                                                                                                                                                                                         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method     | Materials/<br>Products                    | Standard<br>designation                                                                                                                    | Test range                                                                                                                                       | Site | Field<br>testing |
|-----------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 10018:2021   | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety -Particular<br>requirements for<br>electrical warm-water<br>mattresses and beds | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 10027:2015   | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety -Particular<br>requirements for<br>Heating boards                               | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 10029:2020   | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances- Particular<br>requirements for<br>electrical mosquito<br>swatter              | Input : Battery 450<br>Vdc or less, 50 A                                                                                                         | BS-1 | N                |
| KC 60065:2015   | Electrical<br>machinery for<br>households | Audio, Video and similar<br>electronic apparatus-<br>Safety requirements                                                                   | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-1:2016 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 1 : General<br>requirements                                          | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-1:2022 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 1 : General<br>requirements                                          | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |



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| Test method         | Materials/<br>Products              | Standard<br>designation                                                                                                                                                     | Test range                                                                                                                                | Site | Field<br>testing |
|---------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-100:2020 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>Part 2-100 : Particular requirements for hand-held mains-operated garden blowers, vacuums and blower vacuums        | Input : 250 V or less, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-101:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-101 : Particular requirements for vaporizers                                                               | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA   | BS-1 | N                |
| KC 60335-2-102:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-102 : Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA   | BS-1 | N                |
| KC 60335-2-10:2015  | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-10 : Particular requirements for floor treatment machines and wet scrubbing machine                        | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA   | BS-1 | N                |
| KC 60335-2-11:2021  | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-11 : Particular requirements for tumble dryers                                                                | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA   | BS-1 | N                |
| KC 60335-2-12:2015  | Electrical machinery for households | Safety of household and similar electrical appliances<br>- Part 2-12 : Particular requirements for warming plates and similar appliances                                    | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA   | BS-1 | N                |



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| Test method        | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                         | Test range                                                                                                                                     | Site | Field<br>testing |
|--------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-13:2016 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-13 : Particular<br>requirements for electric<br>fryers, electric frying<br>pans and similar<br>appliance | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-14:2016 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-14 : Particular<br>requirements for kitchen<br>machine                                                   | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-15:2020 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-15 : Particular<br>requirements for<br>appliances for Heating<br>liquid                                  | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-15:2022 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-15 : Particular<br>requirements for<br>appliances for Heating<br>liquid                                  | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-16:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-16 : Particular<br>requirements for food<br>waste disposers                                              | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-17:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-17 : Particular<br>requirements for<br>blankets, pads and<br>similar flexible Heating<br>appliances      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method            | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                           | Test range                                                                                                                                     | Site | Field<br>testing |
|------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-<br>21:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-21 : Particular<br>requirements for<br>storage water heater                                                | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-<br>21:2022 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-21 : Particular<br>requirements for<br>storage water heater                                                | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-<br>23:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-23 : Particular<br>requirements for<br>appliances for skin or<br>hair care                                 | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-<br>23:2022 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-23 : Particular<br>requirements for<br>appliances for skin or<br>hair care                                 | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-<br>24:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-24 : Particular<br>requirements for<br>refrigerating appliances,<br>ice-cream appliances<br>and ice-makers | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-<br>24:2022 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-24 : Particular<br>requirements for<br>refrigerating appliances,<br>ice-cream appliances<br>and ice-makers | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method        | Materials/<br>Products              | Standard<br>designation                                                                                                                                               | Test range                                                                                                                            | Site | Field<br>testing |
|--------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-25:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-25 : Particular requirements for microwave ovens                                                     | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-25:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-25 : Particular requirements for microwave ovens                                                     | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-26:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-26 : Particular requirements for clocks                                                              | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-27:2015 | Electrical machinery for households | Safety of household and similar electrical appliances<br>- Part 2-27 : Particular requirements for appliances for skin exposure to ultraviolet and infrared radiation | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-28:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-28 : Particular requirements for sewing machines                                                     | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-29:2020 | Electrical machinery for households | Safety of household and similar electrical appliances<br>- Part 2-29 : Particular requirements for battery chargers                                                   | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |

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| Test method        | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                  | Test range                                                                                                                                     | Site | Field<br>testing |
|--------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-2:2015  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-2 : Particular<br>requirements for<br>vacuum cleaners and<br>water-suction cleaning<br>appliances | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-30:2016 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-30 : Particular<br>requirements for room<br>heater                                                | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-31:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-31 : Particular<br>requirements for range<br>hood                                                 | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-31:2022 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-31 : Particular<br>requirements for range<br>hood                                                 | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-32:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-32 : Particular<br>requirements for<br>massage appliance                                          | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-34:2015 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 2-34 : Particular<br>requirements for motor-<br>compressors                                        | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method        | Materials/<br>Products              | Standard<br>designation                                                                                                                                            | Test range                                                                                                                            | Site | Field<br>testing |
|--------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-35:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-35 : Particular requirements for instantaneous water heaters                                      | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-35:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-35 : Particular requirements for instantaneous water heaters                                      | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-36:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-36 : Particular requirements for commercial electric cooking ranges, Ovens, hobs and hob elements | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-37:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2 - 37 : Particular requirements for commercial electric deep fat fryers                            | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-38:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2 - 38 : Particular requirements for commercial electric griddles and griddle grills                | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-39:2015 | Electrical machinery for households | Safety of household and similar electrical appliances<br>- Part 2-39 : Particular requirements for commercial electric multi-purpose cooking pans                  | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |

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No. KT009

| Test method        | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                         | Test range                                                                                                                                       | Site | Field<br>testing |
|--------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-3:2016  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-3 : Particular<br>requirements for electric<br>iron                                                                                      | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-40:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-40 : Particular<br>requirements for<br>electrical heat pumps,<br>air-conditioners and<br>dehumidifiers                                   | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-40:2022 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-40 : Particular<br>requirements for<br>electrical heat pumps,<br>air-conditioners and<br>dehumidifiers                                   | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-41:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-41 : Particular<br>requirements for pump                                                                                                 | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-42:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-42 : Particular<br>requirements for<br>commercial electric<br>forced convection<br>ovens, steam cookers<br>and steam-convection<br>ovens | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-43:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-43 : Particular<br>requirements for clothes<br>dryers and towel rails                                                                    | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |



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No. KT009

| Test method        | Materials/<br>Products                    | Standard<br>designation                                                                                                                                        | Test range                                                                                                                                     | Site | Field<br>testing |
|--------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-43:2022 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-43 : Particular<br>requirements for clothes<br>dryers and towel rails                   | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-44:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-44 : Particular<br>requirements for ironers                                             | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-44:2021 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-44 : Particular<br>requirements for ironers                                             | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-45:2016 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-45 : particular<br>requirements for<br>portable Heating tools<br>and similar appliances | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-47:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-47 : Particular<br>requirements for<br>commercial electric<br>boiling pans              | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-48:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-48 : Particular<br>requirements for<br>commercial electric<br>grillers and toasters     | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |



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No. KT009

| Test method        | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                            | Test range                                                                                                                                     | Site | Field<br>testing |
|--------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-49:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-49 : Particular<br>requirements for<br>commercial electric hot<br>cupboards                                                 | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-4:2016  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-4 : Particular<br>requirements for spin<br>extractor                                                                        | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-50:2015 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 2-50 : Particular<br>requirements for<br>commercial electric<br>bains-marie                                                  | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-52:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-52 : Particular<br>requirements for oral<br>hygiene appliances                                                              | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-53:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-53 : Particular<br>requirements for sauna<br>Heating appliance                                                              | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-54:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-54 : Particular<br>requirements for<br>surface-cleaning<br>appliances for<br>household use<br>employing liquids or<br>steam | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method        | Materials/<br>Products              | Standard<br>designation                                                                                                                                        | Test range                                                                                                                            | Site | Field<br>testing |
|--------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-55:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-55 : Particular requirements for electrical appliances for use with aquariums and garden pond | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-56:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-56 : Particular requirements for projectors and similar appliances                            | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-58:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-58 : Particular requirements for commercial electric dishwashing machines                     | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-59:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-59 : Particular requirements for insect killer                                                | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-5:2016  | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-5 : Particular requirements for dishwasher                                                    | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-60:2022 | Electrical machinery for households | Safety of household and similar electrical appliances<br>- Part 2-60 : Particular requirements for whirlpool baths and whirlpool spas                          | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |

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No. KT009

| Test method        | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                   | Test range                                                                                                                                     | Site | Field<br>testing |
|--------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-61:2015 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 2-61 : Particular<br>requirements for<br>thermal storage room<br>heaters                            | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-62:2015 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 2-62 : Particular<br>requirements for<br>commercial electric<br>rinsing sinks                       | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-63:2014 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 2-63 : Particular<br>requirements for<br>commercial electric<br>water boilers and liquid<br>heaters | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-64:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-64 : Particular<br>requirements for<br>commercial electric<br>kitchen machines                     | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-65:2020 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-65 : Particular<br>requirements for air-<br>cleaning appliance                                     | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-65:2022 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-65 : Particular<br>requirements for air-<br>cleaning appliance                                     | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method        | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                           | Test range                                                                                                                                       | Site | Field<br>testing |
|--------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-66:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-66 : Particular<br>requirements for water-<br>bed heaters                                                                                  | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-67:2015 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 2-67 : Particular<br>requirements for floor<br>treatment and floor<br>cleaning machines, for<br>industrial and<br>commercial use            | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-68:2015 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 2-68 : Particular<br>requirements for spray<br>extraction appliances,<br>for industrial and<br>commercial use                               | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-69:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical<br>appliances - Safety<br>- Part 2 - 69 : Particular<br>requirements for wet<br>and dry vacuum<br>cleaners, including<br>power brush, for<br>industrial and<br>commercial use | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-6:2016  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-6 : Particular<br>requirements for<br>stationary cooking<br>ranges, hobs, ovens and<br>similar appliance                                   | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-6:2022  | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-6 : Particular<br>requirements for<br>stationary cooking<br>ranges, hobs, ovens and<br>similar appliance                                   | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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| Test method        | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                        | Test range                                                                                                                                       | Site | Field<br>testing |
|--------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-70:2022 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 2-70 : Particular<br>requirements for milking<br>machines                                                                | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-71:2015 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 2-71 : Particular<br>requirements for<br>electrical Heating<br>appliances for breeding<br>and rearing animals            | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-71:2022 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-71 : Particular<br>requirements for<br>electrical heating<br>appliances for breeding<br>and rearing animals             | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-72:2015 | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances - Safety<br>- Part 2 - 72 : Particular<br>requirements for<br>automatic machines for<br>floor treatment for<br>commercial and<br>industrial use | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-73:2015 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 2-73 : Particular<br>requirements for fixed<br>immersion heaters                                                         | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KC 60335-2-74:2015 | Electrical<br>machinery for<br>households | Safety of household and<br>similar electrical<br>appliances<br>- Part 2-74 : Particular<br>requirements for<br>portable immersion<br>heaters                                                   | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |

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No. KT009

| Test method        | Materials/<br>Products              | Standard<br>designation                                                                                                                                                        | Test range                                                                                                                              | Site | Field<br>testing |
|--------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-75:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-75 : Particular requirements for commercial dispensing appliances and vending machine                         | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-78:2015 | Electrical machinery for households | Safety of household and similar electrical appliances<br>- Part 2-78 : Particular requirements for outdoor barbecues                                                           | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-79:2022 | Electrical machinery for households | Safety of household and similar electrical appliances<br>- Part 2-79 : Particular requirements for high pressure cleaners and steam cleaner, for industrial and commercial use | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-7:2021  | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-7 : Particular requirements for washing machine                                                               | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-7:2022  | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-7 : Particular requirements for washing machine                                                                  | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-80:2020 | Electrical machinery for households | Household and similar electrical appliances - Safety<br>- Part 2-80 : Particular requirements for fan                                                                          | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |



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| Test method        | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                          | Test range                                                                                                                              | Site | Field<br>testing |
|--------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-80:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-80 :Particular requirements for fan                                                                                                | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-82:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2 - 82 : Particular requirements for amusement machines and personal service machines                                                | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-84:2016 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-84 : Particular requirements for toilet                                                                                            | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-88:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-88 : Particular requirements for humidifiers intended for use with Heating, ventilation, or air-conditioning systems               | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-89:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-89 : Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-8:2016  | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-8 : Particular requirements for shavers, hair clippers and similar appliance                                                       | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |



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| Test method        | Materials/<br>Products              | Standard<br>designation                                                                                                                                            | Test range                                                                                                                              | Site | Field<br>testing |
|--------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 60335-2-90:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-90 : Particular requirements for commercial microwave ovens                                          | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-91:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-91 : Particular requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers      | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-95:2015 | Electrical machinery for households | Safety of household and similar electrical appliances - Part 2-95 : Particular requirements for drives for vertically moving garage doors for residential use      | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-97:2015 | Electrical machinery for households | Safety of household and similar electrical appliances - Part 2-97 : Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-98:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-98 : Particular requirements for humidifier                                                          | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 60335-2-99:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-99 : Particular requirements for commercial electric hoods                                           | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| KC 61851-1:2020    | Electrical machinery for households | Electric vehicle conductive charging system - Part 1 : General requirements                                                                                        | AC 600 V or less                                                                                                                        | BS-1 | N                |

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| Test method          | Materials/<br>Products                    | Standard<br>designation                                                                                                                                             | Test range                                                 | Site | Field<br>testing |
|----------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------|------------------|
| KC 61851-1:2022      | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive<br>charging system -<br>Part 1: General<br>requirements<br>(EXCEPTION)<br>12.4 IP degrees                                            | AC 770 V or less<br>DC 2 000 V or less                     | SF-2 | N                |
| KC 61851-1:2022      | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive<br>charging system -<br>Part 1: General<br>requirements<br>12.4 IP degrees                                                           | AC 770 V or less<br>DC 2 000 V or less                     | BS-3 | N                |
| KC 61851-1:2022      | Electric vehicle<br>charging<br>system    | Electric Vehicle<br>Conductive Charging<br>System Part 1: General<br>Requirement                                                                                    | Input Voltage: 3P4W,<br>below 440 V                        | BS-1 | N                |
| KC 61851-<br>22:2015 | Electrical<br>machinery for<br>households | Electric vehicle<br>conductive charging<br>system - Part 22 : AC<br>electric vehicle charging<br>system                                                             | AC 600 V or less                                           | BS-1 | N                |
| KC 61851-<br>23:2018 | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive charging<br>system - Part 23: DC<br>electric vehicle charging<br>station<br>(EXCEPTION)<br>12.2 IP degrees for<br>ingress of objects | AC 770 V or less<br>DC 2 000 V or less                     | SF-2 | N                |
| KC 61851-<br>23:2018 | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive charging<br>system - Part 23: DC<br>electric vehicle charging<br>station<br>12.2 IP degrees for<br>ingress of objects                | AC 770 V or less<br>DC 2 000 V or less                     | BS-3 | N                |
| KC 61851-<br>23:2018 | Electrical<br>machinery for<br>households | Electric vehicle<br>conductive charging<br>system - Part 23 : DC<br>electric vehicle charging<br>station                                                            | AC 600 V or less                                           | BS-1 | N                |
| KC 62196-1:2019      | Electrical<br>machinery for<br>households | Plugs, socket-outlets,<br>vehicle connectors and<br>vehicle<br>inlets - Conductive<br>charging of electric<br>vehicles - Part 1 :<br>General requirements           | AC 690 V / 250 A or<br>less<br>DC 600 V / 400 A or<br>less | BS-1 | N                |

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| Test method     | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                     | Test range                                                                                                                                                                                                                                                                                                                                                      | Site | Field<br>testing |
|-----------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KC 62196-2:2020 | Electrical<br>machinery for<br>households | Plugs, socket-outlets,<br>vehicle connectors and<br>vehicle<br>inlets - Conductive<br>charging of electric<br>vehicles - Part 2 :<br>Dimensional<br>compatibility and<br>interchangeability<br>requirements for a.c. pin<br>and contact-tube<br>accessories | AC 500 V / 250 A or<br>less                                                                                                                                                                                                                                                                                                                                     | BS-1 | N                |
| KC 62368-1:2021 | Electrical<br>machinery for<br>households | Audio/video information<br>and communication<br>technology equipment -<br>Part 1: Safety<br>requirements<br><Exception><br>10.6.6 Acoustic test                                                                                                             | AC/DC 600 V or less                                                                                                                                                                                                                                                                                                                                             | BS-1 | N                |
| KC 62752:2022   | IC-CPD                                    | In-cable control and<br>protection device for<br>mode2 charging of<br>electric road vehicle (IC-<br>CPD)                                                                                                                                                    | Input Voltage : 3P4W,<br>below 440 V,<br><br>not including<br>9.7.3.5 Verificaion of<br>correct operation in<br>case of sudden<br>appearance of residual<br>currents between 5 A<br>and 100 A,<br>9.8.2 Endurance of the<br>residual current<br>function of the IC-CPD,<br>9.9 Verification of the<br>behavior of the IC-CPD<br>under overcurrent<br>conditions | BS-1 | N                |
| KS C 8565:2023  | Electric vehicle<br>charging<br>system    | Medium and large size<br>photovoltaic inverter<br>(grid-tied type, stand-<br>alone type)<br>(EXCEPTION)<br>8.3.3 electric shock<br>protection test                                                                                                          | 2.4 MW or less                                                                                                                                                                                                                                                                                                                                                  | SF-2 | N                |
| KS C 8565:2023  | Electric vehicle<br>charging<br>system    | Medium and large size<br>photovoltaic inverter<br>(grid-tied type, stand-<br>alone type)<br>8.3.3 electric shock<br>protection test                                                                                                                         | 2.4 MW or less                                                                                                                                                                                                                                                                                                                                                  | BS-3 | N                |

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| Test method            | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test range                                                                                                                                      | Site | Field<br>testing |
|------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C 9101:2014         | Electrical<br>machinery for<br>households | Electric Vacuum<br>Cleaners<br><Exceptions><br>Annex C Sand Removal<br>Capacity Test and<br>Carpet Handling<br>Resistance Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KS C 9304:2002         | Electrical<br>machinery for<br>households | Ventilation Fans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA | BS-1 | N                |
| KS C IEC<br>60529:2013 | Electrical<br>machinery for<br>households | Degrees of protection<br>provided by<br>enclosures(IP Code)<br>(EXCEPTION)<br>14.2.1 Test for second<br>characteristic numerals<br>1 with the drip box<br>14.2.2 Test for second<br>characteristic numerals<br>2 with the drip box<br>14.2.3 Test for second<br>characteristic numeral 3<br>with oscillating tube or<br>spray nozzle: oscillating<br>tube<br>14.2.4 Test for second<br>characteristic numeral 4<br>with oscillating tube or<br>spray nozzle: oscillating<br>tube<br>14.2.7 Test for second<br>characteristic numeral 7:<br>temporary immersion<br>between 0,15 m and 1<br>m<br>14.2.8 Test for second<br>characteristic numeral 8:<br>continuous immersion<br>subject to agreement<br>14.2.9 Test for second<br>characteristic numerals<br>9 by high pressure and<br>temperature water<br>jetting | IP1X ~ IP6X<br>IPX3 ~ IPX6                                                                                                                      | BS-3 | N                |

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| Test method               | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                               | Test range                              | Site | Field<br>testing |
|---------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------|------------------|
| KS C IEC 62477-1:<br>2016 | Electrical<br>machinery for<br>households | Safety requirements for<br>power electronic<br>converter systems and<br>equipment - Part 1:<br>General<br><br>(EXCEPTION)<br>5.2.2.3 Ingress<br>protection test (IP<br>rating)<br>5.2.5.2 High current<br>arcing ignition test<br>5.2.5.3 Glow-wire test<br>5.2.5.5 Flammability test<br>5.2.5.6 Flaming oil test<br>5.2.6.4 Vibration test<br>5.2.6.5 Salt mist test | 전압: AC (0 ~ 765) V,<br>DC (0 ~ 1 500) V | SF-2 | N                |
| KS C IEC 62477-1:<br>2016 | Electrical<br>machinery for<br>households | Safety requirements for<br>power electronic<br>converter systems and<br>equipment - Part 1:<br>General<br>5.2.2.3 Ingress<br>protection test (IP<br>rating)<br>5.2.5.2 High current<br>arcing ignition test<br>5.2.5.3 Glow-wire test<br>5.2.5.5 Flammability test<br>5.2.5.6 Flaming oil test<br>5.2.6.4 Vibration test<br>5.2.6.5 Salt mist test                    | 전압: AC (0 ~ 765) V,<br>DC (0 ~ 1 500) V | BS-3 | N                |
| KS R 61851-<br>1:2022     | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive<br>charging system -<br>Part 1: General<br>requirements<br>(EXCEPTION)<br>12.4 IP degrees                                                                                                                                                                                                                                              | AC 770 V or less<br>DC 2 000 V or less  | SF-2 | N                |
| KS R 61851-<br>1:2022     | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive<br>charging system -<br>Part 1: General<br>requirements<br>12.4 IP degrees                                                                                                                                                                                                                                                             | AC 770 V or less<br>DC 2 000 V or less  | BS-3 | N                |
| KS R 61851-<br>23:2022    | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive charging<br>system - Part 23: DC<br>electric vehicle charging<br>station<br>(EXCEPTION)<br>101.1.2 IP degrees for<br>ingress of objects                                                                                                                                                                                                | AC 770 V or less<br>DC 2 000 V or less  | SF-2 | N                |

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| Test method                  | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                    | Test range                                                                                                                              | Site | Field<br>testing |
|------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS R 61851-23:2022           | Electric vehicle charging system    | Electric vehicle conductive charging system - Part 23: DC electric vehicle charging station<br>101.1.2 IP degrees for ingress of objects                                                                                   | AC 770 V or less<br>DC 2 000 V or less                                                                                                  | BS-3 | N                |
| KS R 61851-24:2014           | Electric vehicle charging system    | Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and ac electric vehicle for control of d.c. charging                                                       | AC 770 V or less<br>DC 2 000 V or less                                                                                                  | SF-2 | N                |
| KS R IEC 62196-1:2015        | Electrical machinery for households | Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1 : General requirements                                                                                    | AC 690 V / 250 A or less<br>DC 600 V / 400 A or less                                                                                    | BS-1 | N                |
| KS R IEC 62196-2:2019        | Electrical machinery for households | Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2 : Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories | AC 500 V / 250 A or less<br>single phase : 70 A or less<br>three phase : 63 A or less                                                   | BS-1 | N                |
| NBR NM-IEC 335-1:1998        | Electrical machinery for households | Safety of household and similar electrical appliances - Part 1: General requirements                                                                                                                                       | Input : (3 ~ 450) V, 50 A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 % R.H.<br>Electric strength : 5 kV<br>Leakage current : 50 mA | BS-1 | N                |
| NTE INEN-IEC 60268-5:2007    | Electrical machinery for households | Sound System equipment - Part 5: Loud speakers                                                                                                                                                                             | Sensitivity : 50 mV/Pa<br>Frequency : 6.3 Hz ~ 20 kHz                                                                                   | BS-1 | N                |
| Portaria INMETRO nº 577:2015 | Electrical machinery for households | TECHNICAL REGULATION OF QUALITY FOR REFRIGERATORS AND ASSEMBLIES                                                                                                                                                           | Input : (3 ~ 450) V, 50 A                                                                                                               | BS-1 | N                |

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| Test method                                             | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                        | Test range                                                                                                                                             | Site | Field<br>testing |
|---------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| Portaria INMETRO<br>nº377 : 2021                        | Electrical<br>machinery for<br>households | Approves the Technical<br>Quality Regulation and<br>Conformity Assessment<br>Requirements for<br>Televisions -<br>Consolidated.                                                                | Input : (3 ~ 450) V, 50<br>A                                                                                                                           | BS-1 | N                |
| Portaria Inmetro<br>nº 185:2005<br>(Washing<br>Machine) | Electrical<br>machinery for<br>households | Specific regulations for<br>use of label Energy<br>Conservation - ENCE<br>Edition No. 01 - Review<br>01 Washing Machine<br><Exception><br>Projeto de Norma ABNT<br>03:059.05-025 de<br>07/1999 | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA       | BS-1 | N                |
| Portaria Inmetro<br>nº 269:2021<br>(Air Conditioner)    | Electrical<br>machinery for<br>households | Approve Compliance<br>Assessment<br>Requirements for Air<br>Conditioners<br>- Consolidated                                                                                                     | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W                                                                                                      | BS-1 | N                |
| RTE INEN<br>083:2013                                    | Electrical<br>machinery for<br>households | TV Tuner ISDB-T<br>International Digital<br>Television Standard                                                                                                                                | RF : 100 kHz ~ 3 GHz<br>RF power : (-120 ~ 10)<br>dBm                                                                                                  | BS-1 | N                |
| RTE INEN<br>114:2013                                    | Electrical<br>machinery for<br>households | Speakers                                                                                                                                                                                       | Sensitivity : 50 mV/Pa<br>Frequency : 6.3 Hz ~<br>20 kHz                                                                                               | BS-1 | N                |
| RTE INEN<br>118:2013                                    | Electrical<br>machinery for<br>households | Electric amplifiers                                                                                                                                                                            | Output power : (0 ~ 5<br>000) W                                                                                                                        | BS-1 | N                |
| RTE INEN<br>139:2015                                    | Electrical<br>machinery for<br>households | Electric heaters for<br>domestic use                                                                                                                                                           | AC 1-phase or 3-phase<br>Voltage: Max. 480 V<br>Current: Max. 32<br>A/Phase<br>Frequency: 50 Hz<br>or/and 60 Hz                                        | BS-1 | N                |
| RTE INEN<br>147:2014                                    | Electrical<br>machinery for<br>households | Electric irons                                                                                                                                                                                 | AC 1-phase<br>Voltage: Max. 300 V<br>Current: Max. 32<br>A/Phase<br>Frequency: 50 Hz<br>or/and 60 Hz                                                   | BS-1 | N                |
| RTE INEN<br>179:2014                                    | Electrical<br>machinery for<br>households | Skin or hair care devices                                                                                                                                                                      | AC 1-phase<br>Voltage: Max. 300 V<br>Current: Max. 32<br>A/Phase<br>DC<br>Voltage: Max. 30 V<br>Current: Max. 20 A<br>Frequency: 50 Hz<br>or/and 60 Hz | BS-1 | N                |



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| Test method          | Materials/<br>Products                    | Standard<br>designation                                                          | Test range                                                                                                                                          | Site | Field<br>testing |
|----------------------|-------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| RTE INEN<br>191:2014 | Electrical<br>machinery for<br>households | Haircutters and similar<br>appliances                                            | AC 1-phase<br>Voltage: Max. 300 V<br>Current: Max. 32<br>A/Phase DC<br>Voltage: Max. 30 V<br>Current: Max. 20 A<br>Frequency: 50 Hz<br>or/and 60 Hz | BS-1 | N                |
| RTE INEN<br>197:2014 | Electrical<br>machinery for<br>households | Vacuum cleaners                                                                  | AC 1-phase<br>Voltage: Max. 300 V<br>Current: Max. 32<br>A/Phase DC<br>Voltage: Max. 30 V<br>Current: Max. 20 A<br>Frequency: 50 Hz<br>or/and 60 Hz | BS-1 | N                |
| RTE INEN 202         | Electrical<br>machinery for<br>households | Equipment Printing and<br>Scanning                                               | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 ℃<br>Humidity : 25 ℃, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA      | BS-1 | N                |
| RTE INEN<br>203:2014 | Electrical<br>machinery for<br>households | Machines with motor<br>for use in the kitchen                                    | AC 1-phase<br>Voltage: Max. 300 V<br>Current: Max. 32<br>A/Phase DC<br>Voltage: Max. 30 V<br>Current: Max. 20 A<br>Frequency: 50 Hz<br>or/and 60 Hz | BS-1 | N                |
| RTE INEN<br>208:2014 | Electrical<br>machinery for<br>households | Commercial kitchens.<br>Security                                                 | AC 1-phase or 3-phase<br>Voltage: Max. 480 V<br>Current: Max. 32<br>A/Phase<br>Frequency: 50 Hz<br>or/and 60 Hz                                     | BS-1 | N                |
| RTE INEN<br>227:2016 | Electrical<br>machinery for<br>households | Electrical apparatus for<br>heating liquids, for<br>cooking food and the<br>like | AC 1-phase<br>Voltage: Max. 300 V<br>Current: Max. 32<br>A/Phase<br>Frequency: 50 Hz<br>or/and 60 Hz                                                | BS-1 | N                |
| RTE INEN<br>277:2015 | Electrical<br>machinery for<br>households | Electric Water<br>Dispensers                                                     | AC 1-phase or 3-phase<br>Voltage: Max. 480 V<br>Current: Max. 32<br>A/Phase<br>Frequency: 50 Hz<br>or/and 60 Hz                                     | BS-1 | N                |

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| Test method                                      | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                | Test range                                                                                                                                            | Site | Field<br>testing |
|--------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| RTE INEN<br>283:2015                             | Electrical<br>machinery for<br>households | Refrigeration equipment<br>for commercial use                                                                                                                                                                                                                                                                                                                                                          | AC 1-phase or 3-phase<br>Voltage: Max. 480 V<br>Current: Max. 32 A DC<br>Voltage: Max. 30 V<br>Current: Max. 20 A<br>Frequency: 50 Hz<br>or/and 60 Hz | BS-1 | N                |
| EN IEC 61851-<br>1:2019                          | Electric vehicle<br>charging<br>system    | Electric vehicle<br>conductive<br>charging system -<br>Part 1: General<br>requirements<br>(EXCEPTION)<br>12.4 IP degrees                                                                                                                                                                                                                                                                               | AC 770 V or less<br>DC 2 000 V or less                                                                                                                | SF-2 | N                |
| UL 60335-2-<br>89:2021                           | Electrical<br>machinery for<br>households | Household and similar<br>electrical appliances -<br>Safety<br>- Part 2-89: Particular<br>requirements for<br>commercial refrigerating<br>appliances and ice-<br>makers with an<br>incorporated or remote<br>refrigerant unit or<br>motor-compressor<br>(21.103, 22.108,<br>22.110, 22.111,<br>22.112, 22.113,<br>22.114, 22.115,<br>22.116, 22.117,<br>22.118, 22.119,<br>22.120, 22.121, Annex<br>CC) | Input : (3 ~ 450) V, 50<br>A<br>Temperature : 200 °C<br>Humidity : 25 °C, 95 %<br>R.H.<br>Electric strength : 5 kV<br>Leakage current : 50<br>mA      | BS-1 | N                |
| KATS Notice<br>No.2021-<br>0226(08.03.2021.<br>) | Electrical<br>machinery for<br>households | Cosmetic Devices                                                                                                                                                                                                                                                                                                                                                                                       | Spectrum range : (250<br>~ 1 600) nm<br>Temperature : Below<br>200 °C                                                                                 | BS-1 | N                |

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## 03. Electrical Testing

### 03.008 Wired/wireless communication devices

| Test method      | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                     | Test range        | Site | Field<br>testing |
|------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------|------------------|
| 3GPP TR 37.901   | Wired/wireless<br>communication<br>devices | Technical Specification<br>Group Radio Access<br>Network; User<br>Equipment(UE)<br>application layer data<br>throughput<br>performance                                                                                                      | (600 ~ 3 800) MHz | BS-2 | N                |
| 3GPP TS 31.121   | Wired/wireless<br>communication<br>devices | UICC-terminal interface;<br>Universal Subscriber<br>Identity Module(USIM)<br>application tests<br>specification                                                                                                                             | (600 ~ 3 800) MHz | BS-2 | N                |
| 3GPP TS 31.124   | Wired/wireless<br>communication<br>devices | Technical Specification<br>Group Core Network<br>and Terminals; Mobile<br>Equipment<br>(ME)conformance test<br>specification; Universal<br>Subscriber Identity<br>Module Application<br>Toolkit (USAT)<br>conformance test<br>specification | (600 ~ 3 800) MHz | BS-2 | N                |
| 3GPP TS 34.108   | Wired/wireless<br>communication<br>devices | Technical Specification<br>Group Radio Access<br>Network; Common test<br>environments for User<br>Equipment(UE);<br>Conformance testing                                                                                                     | 9 kHz ~ 12.75 GHz | BS-2 | N                |
| 3GPP TS 34.114   | Wired/wireless<br>communication<br>devices | User Equipment (UE) /<br>Mobile Station (MS)<br>Over The Air (OTA)<br>antenna performance ;<br>Conformance testing                                                                                                                          | (700 ~ 6 000) MHz | BS-2 | N                |
| 3GPP TS 34.121-1 | Wired/wireless<br>communication<br>devices | UMTS; User Equipment<br>(UE) conformance<br>specification; Radio<br>transmission and<br>reception (FDD); Part 1:<br>Conformance<br>Specification                                                                                            | 9 kHz ~ 12.75 GHz | BS-2 | N                |
| 3GPP TS 34.122   | Wired/wireless<br>communication<br>devices | Universal Mobile<br>Telecommunications<br>System (UMTS);<br>Terminal conformance<br>specification; Radio<br>transmission and<br>reception (TDD)                                                                                             | 9 kHz ~ 12.75 GHz | BS-2 | N                |

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| Test method      | Materials/<br>Products                  | Standard<br>designation                                                                                                                                                                                                                                                                                                          | Test range        | Site | Field<br>testing |
|------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------|------------------|
| 3GPP TS 34.123-1 | Wired/wireless<br>communication devices | User Equipment (UE)<br>conformance<br>specification; Part 1:<br>Protocol conformance<br>specification                                                                                                                                                                                                                            | (600 ~ 3 800) MHz | BS-2 | N                |
| 3GPP TS 34.229-1 | Wired/wireless<br>communication devices | Technical Specification<br>Group Radio Access<br>Network; Internet<br>Protocol (IP) multimedia<br>call control protocol<br>based on Session<br>Initiation Protocol (SIP)<br>and Session Description<br>Protocol (SDP); User<br>Equipment (UE)<br>conformance<br>specification ; Part 1:<br>Protocol conformance<br>specification | 9 kHz ~ 12.75 GHz | BS-2 | N                |
| 3GPP TS 36.124   | Wired/wireless<br>communication devices | Evoloved Universal<br>Terrestrial Radio Access<br>(E-UTRA);<br>Electromagnetic<br>compatibility(EMC)<br>requirements for mobile<br>terminals and ancillary<br>equipment                                                                                                                                                          | 30 MHz ~ 18 GHz   | BS-2 | N                |
| 3GPP TS 36.508   | Wired/wireless<br>communication devices | Technical Specification<br>Group Radion Access<br>Network; Evolved<br>Universal Terrestrial<br>Radio Access(E-UTRA)<br>and Evolved Packet<br>Core(EPC); Common<br>test environments for<br>User Equipment(UE)<br>conformance testing                                                                                             | 9 kHz ~ 12.75 GHz | BS-2 | N                |
| 3GPP TS 36.521-1 | Wired/wireless<br>communication devices | Evolved Universal<br>Terrestrial Radio Access<br>(E-UTRA); User<br>Equipment (UE)<br>conformance<br>specification Radio<br>transmission and<br>reception Part 1:<br>Conformance Testing                                                                                                                                          | 9 kHz ~ 12.75 GHz | BS-2 | N                |

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| Test method      | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                         | Test range                                                  | Site | Field<br>testing |
|------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|------------------|
| 3GPP TS 36.521-3 | Wired/wireless<br>communication<br>devices | Evolved Universal<br>Terrestrial Radio Access<br>(E-UTRA); User<br>Equipment (UE)<br>conformance<br>specification; Radio<br>transmission and<br>reception; Part 3: Radio<br>Resource Management<br>(RRM) conformance<br>testing | (600 ~ 3 800) MHz                                           | BS-2 | N                |
| 3GPP TS 36.523-1 | Wired/wireless<br>communication<br>devices | Evolved Universal<br>Terrestrial Radio Access<br>(E-UTRA) and Evolved<br>Packet Core (EPC); User<br>Equipment (UE)<br>conformance<br>specification; Part 1:<br>Protocol conformance<br>specification                            | (600 ~ 3 800) MHz                                           | BS-2 | N                |
| 3GPP TS 37.544   | Wired/wireless<br>communication<br>devices | Universal Terrestrial<br>Radio Access (UTRA)<br>and Evolved Universal<br>Terrestrial Radio Access<br>(E-UTRA); User<br>Equipment (UE) Over<br>The Air (OTA)<br>performance:<br>Conformance testing                              | (700 ~ 6 000) MHz                                           | BS-2 | N                |
| 3GPP TS 38.124   | Wired/wireless<br>communication<br>devices | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network; NR;<br>ElectroMagnetic<br>Compatibility (EMC)<br>requirements for mobile<br>terminals and ancillary<br>equipment            | 9 kHz ~ 26 GHz                                              | BS-2 | N                |
| 3GPP TS 38.508-1 | Wired/wireless<br>communication<br>devices | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network; 5GS; User<br>Equipment (UE)<br>conformance<br>specification; Part 1:<br>Common test<br>environment                          | FR1: (410 ~ 7 125)<br>MHz,<br>FR2: (24 250 ~ 43 500)<br>MHz | BS-2 | N                |

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| Test method      | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                               | Test range                                                  | Site | Field<br>testing |
|------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------|------------------|
| 3GPP TS 38.521-1 | Wired/wireless<br>communication<br>devices | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network; NR; User<br>Equipment (UE)<br>conformance<br>specification; Radio<br>transmission and<br>reception; Part 1: Range<br>1 Standalone;                                                | FR1: (410 ~ 7 125)<br>MHz                                   | BS-2 | N                |
| 3GPP TS 38.521-2 | Wired/wireless<br>communication<br>devices | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network; NR; User<br>Equipment (UE)<br>conformance<br>specification; Radio<br>transmission and<br>reception; Part 2: Range<br>2 Standalone                                                 | FR2: (24 250 ~ 43 500)<br>MHz                               | BS-2 | N                |
| 3GPP TS 38.521-3 | Wired/wireless<br>communication<br>devices | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network; NR; User<br>Equipment (UE)<br>conformance<br>specification; Radio<br>transmission and<br>reception; Part 3: Range<br>1 and Range 2<br>Interworking operation<br>with other radios | FR1: (410 ~ 7 125)<br>MHz,<br>FR2: (24 250 ~ 43 500)<br>MHz | BS-2 | N                |
| 3GPP TS 38.521-4 | Wired/wireless<br>communication<br>devices | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network; NR; User<br>Equipment (UE)<br>conformance<br>specification; Radio<br>transmission and<br>reception; Part 4:<br>Performance<br>requirements                                        | FR1: (410 ~ 7 125)<br>MHz,<br>FR2: (24 250 ~ 43 500)<br>MHz | BS-2 | N                |
| 3GPP TS 38.523-1 | Wired/wireless<br>communication<br>devices | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network; 5GS; User<br>Equipment (UE)<br>conformance<br>specification; Part 1:<br>Protocol                                                                                                  | FR1: (410 ~ 7 125)<br>MHz,<br>FR2: (24 250 ~ 43 500)<br>MHz | BS-2 | N                |

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| Test method                         | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                               | Test range                                                                                      | Site | Field<br>testing |
|-------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------|------------------|
| 3GPP TS 38.533                      | Wired/wireless<br>communication<br>devices | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network; NR; User<br>Equipment (UE)<br>conformance<br>specification; Radio<br>Resource Management<br>(RRM) | FR1: (410 ~ 7 125)<br>MHz,<br>FR2: (24 250 ~ 43 500)<br>MHz                                     | BS-2 | N                |
| 3GPP TS 51.010-1                    | Wired/wireless<br>communication<br>devices | Digital cellular<br>telecommunications<br>system (Phase 2+);<br>Mobile Station(MS)<br>conformance<br>specification; Part 1:<br>Conformance<br>specification                                           | 9 kHz ~ 12.75 GHz                                                                               | BS-2 | N                |
| 3GPP TS 51.010-4                    | Wired/wireless<br>communication<br>devices | Core Network and<br>Terminals; Mobile<br>Station(MS)<br>conformance<br>specification; Part<br>4:Subscriber Identity<br>Module(SIM) application<br>toolkit Conformance<br>test Specification           | (800 ~ 2 200) MHz                                                                               | BS-2 | N                |
| ANSI/USEMCSC<br>C63.27-2021         | Wired/wireless<br>communication<br>devices | American National<br>Standard for Evaluation<br>of Wireless Coexistence                                                                                                                               | Frequency Range : 30<br>MHz ~ 6 GHz<br>(Exception : Annex C<br>Multiple chamber test<br>method) | BS-1 | N                |
| CTIA Battery Life<br>Test Plan:2021 | Wired/wireless<br>communication<br>devices | CTIA Battery Life Test<br>Plan                                                                                                                                                                        | Voltage : 1 V ~ 5 V<br>Current : 1 A ~ 20 A                                                     | BS-2 | N                |
| CTIA OTA Test<br>Plan:2022          | Wired/wireless<br>communication<br>devices | Test Plan for Wireless<br>Device Over-the-Air<br>Performance                                                                                                                                          | 600 MHz ~ 6 GHz                                                                                 | BS-2 | N                |
| CWG RF Test<br>Plan:2021            | Wired/wireless<br>communication<br>devices | Test Plan for RF<br>Performance Evaluation<br>of Wi-Fi Mobile<br>Converged Devices                                                                                                                    | (600 ~ 6 000) MHz                                                                               | BS-2 | N                |
| EN 100 910:2005                     | Wired/wireless<br>communication<br>devices | Digital Cellular<br>Telecommunications<br>system (Phase 2+);<br>Radio Transmission and<br>Reception;                                                                                                  | (600 ~ 3 800) MHz                                                                               | BS-2 | N                |
| EN 300 220<br>v2.4.1:2012           | Wired/wireless<br>communication<br>devices | Radio equipment to be<br>used in the 25 MHz to<br>1000 MHz Frequency<br>range With power levels<br>ranging up to 500 mW                                                                               | (25 ~ 1 000) MHz                                                                                | BS-2 | N                |

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|-------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------|------------------|
| EN 300 220-1:2017 | Wired/wireless communication devices | Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement                                                                            | (25 ~ 1 000) MHz    | BS-1 | N                |
| EN 300 220-2:2017 | Wired/wireless communication devices | Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment | (25 ~ 1 000) MHz    | BS-1 | N                |
| EN 300 328:2015   | Wired/wireless communication devices | Data transmission equipment operating in the 2.4 GHz ISM band modulation techniques                                                                                                                                     | (2 400 ~ 2 500) MHz | BS-2 | N                |
| EN 300 328:2019   | Wired/wireless communication devices | Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum                                                                              | 30 MHz ~ 18 GHz     | BS-1 | N                |
| EN 300 328:2019   | Wired/wireless communication devices | Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum                                                                              | 30 MHz ~ 18 GHz     | BS-2 | N                |
| EN 300 330-2:2015 | Wired/wireless communication devices | Technical characteristics and test methods for radio equipment in the Frequency range 9kHz to 25 MHz and inductive loop systems in the Frequency range 9 kHz to 30MHz                                                   | 9 kHz ~ 30 MHz      | BS-2 | N                |

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| Test method              | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                             | Test range           | Site | Field<br>testing |
|--------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|------------------|
| EN 300 330:2017          | Wired/wireless<br>communication<br>devices | Short Range Devices (SRD); Radio equipment in the Frequency range 9 kHz to 25 MHz and inductive loop systems in the Frequency range 9 kHz to 30 MHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU | 9 kHz ~ 18 GHz       | BS-2 | N                |
| EN 300 330:2017          | Wired/wireless<br>communication<br>devices | Short Range Devices (SRD); Radio equipment in the Frequency range 9 kHz to 25 MHz and inductive loop systems in the Frequency range 9 kHz to 30 MHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU | 9 kHz ~ 18 GHz       | BS-1 | N                |
| EN 300 440-2:2010        | Wired/wireless<br>communication<br>devices | Radio equipment to be used in the 1 GHz to 40 GHz Frequency range                                                                                                                                                                                   | (1 000 ~ 18 000) MHz | BS-2 | N                |
| EN 300 440:2017          | Wired/wireless<br>communication<br>devices | Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz Frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                                                        | 9 kHz ~ 40 GHz       | BS-2 | N                |
| EN 301 357-2 v1.4.1:2008 | Wired/wireless<br>communication<br>devices | Electro magnetic compatibility and Radio spectrum Matters (ERM); Cordless audio devices in the range 25 MHz to 2 000 MHz; - Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive                             | 9 kHz ~ 26.5 GHz     | BS-2 | N                |

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| Test method                | Materials/<br>Products                      | Standard<br>designation                                                                                                                                                                                                  | Test range          | Site | Field<br>testing |
|----------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------|------------------|
| EN 301 390 v1.3.1<br>:2013 | Wired/wireless<br>communicatio<br>n devices | Fixed Radio Systems ;<br>Point-to-point and Multi<br>point Systems;<br>Unwanted emissions in<br>the spurious domain<br>and receiver immunity<br>limit sat<br>equipment/antenna port<br>of Digital Fixed Radio<br>Systems | 9 kHz ~ 26.5 GHz    | BS-2 | N                |
| EN 301 406:2009            | Wired/wireless<br>communicatio<br>n devices | Digital Enhanced<br>Cordless<br>Telecommunications<br>(DECT)                                                                                                                                                             | (1 880 ~ 1 900) MHz | BS-2 | N                |
| EN 301 511:2017            | Wired/wireless<br>communicatio<br>n devices | Global System for<br>Mobile communications<br>(GSM); Mobile Stations<br>(MS) equipment;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.2 of Directive<br>2014/53/EU                    | 9 kHz ~ 18 GHz      | BS-2 | N                |
| EN 301 893:2015            | Wired/wireless<br>communicatio<br>n devices | Broadband Radio Access<br>Networks (BRAN); 5<br>GHz high performance<br>RLAN; Harmonized EN<br>covering the essential<br>requirements of article<br>3.2 of the R&TTE<br>Directive                                        | 9 kHz ~ 26.5 GHz    | BS-2 | N                |
| EN 301 893:2017            | Wired/wireless<br>communicatio<br>n devices | 5 GHz RLAN;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.2 of Directive<br>2014/53/EU                                                                                                | 9 kHz ~ 26.5 GHz    | BS-2 | N                |
| EN 301 908-<br>13:2019     | Wired/wireless<br>communicatio<br>n devices | IMT cellular networks;<br>Harmonised Standard<br>for access to radio<br>spectrum;<br>Part 13: Evolved<br>Universal Terrestrial<br>Radio Access (E-UTRA)<br>User Equipment (UE)<br><Exception><br>LTE Category : NB1, M1  | 9 kHz ~ 18 GHz      | BS-2 | N                |

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| Test method              | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                           | Test range       | Site | Field<br>testing |
|--------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|------------------|
| EN 301 908-13:2022       | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) <Exception> LTE Category : NB1, M1                                                                                      | 9 kHz ~ 18 GHz   | BS-2 | N                |
| EN 301 908-2:2020        | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)                                                                                                                                                | 9 kHz ~ 18 GHz   | BS-2 | N                |
| EN 302 208-2 v1.4.1:2011 | Wired/wireless communication devices | Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz With power levels up to 2 W; - Part 2 : Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive | 9 kHz ~ 26.5 GHz | BS-2 | N                |
| EN 302 291-2 v1.1.1:2005 | Wired/wireless communication devices | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Close Range Inductive Data Communication equipment operating at 13 56 MHz; - Part 2 : Harmonised EN under article 3.2 of the R&TTE Directive                                           | 9 kHz ~ 26.5 GHz | BS-2 | N                |
| EN 302 326-3 v1.3.1:2008 | Wired/wireless communication devices | Fixed Radio Systems; Multi point Equipment and Antennas; - Part 3 : Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive for Multi point Radio Antennas                                                                                        | 9 kHz ~ 26.5 GHz | BS-2 | N                |

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| Test method     | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                   | Test range                                            | Site | Field<br>testing |
|-----------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------|------------------|
| EN 303 348:2016 | Wired/wireless<br>communication<br>devices | Induction loop systems<br>intended to assist the<br>hearing impaired in the<br>Frequency range 10 Hz<br>to 9 kHz; Harmonised<br>Standard covering the<br>essential requirements<br>of article 3.2 of the<br>Directive 2014/53/EU                                          | 10 Hz ~ 18 GHz                                        | BS-2 | N                |
| EN 50383:2002   | Wired/wireless<br>communication<br>devices | Basic standard for the<br>calculation and<br>measurement of<br>electromagnetic field<br>strength and SAR<br>related to human<br>exposure from radio<br>base stations and fixed<br>terminal stations for<br>Wireless<br>telecommunication<br>systems (110 MHz - 40<br>GHz) | MPE : 110 MHz ~ 40<br>GHz                             | BS-2 | N                |
| EN 50385:2017   | Wired/wireless<br>communication<br>devices | Product standard to<br>demonstrate the<br>compliance of base<br>station equipment with<br>radio frequency<br>electromagnetic field<br>exposure limits (110<br>MHz - 100 GHz), when<br>placed on the market                                                                | MPE : 110 MHz ~ 40<br>GHz                             | BS-2 | N                |
| EN 62311:2008   | Wired/wireless<br>communication<br>devices | Assessment of electronic<br>and electrical equipment<br>related to human<br>exposure restrictions for<br>electromagnetic fields (0<br>Hz - 300 GHz)                                                                                                                       | 10 MHz ~ 6 GHz                                        | BS-2 | N                |
| EN 62479:2010   | Wired/wireless<br>communication<br>devices | Assessment of the<br>compliance of Low<br>power electronic and<br>electrical equipment<br>With the basic<br>restrictions related to<br>human exposure to<br>electromagnetic fields<br>(10 MHz to 300 GHz)                                                                 | SAR : 400 MHz ~ 6<br>GHz<br>MPE : 10 MHz ~ 300<br>GHz | BS-2 | N                |
| EPC global:2008 | Wired/wireless<br>communication<br>devices | Tag Performance<br>Parameters and Test<br>Methods Version 1.1.3                                                                                                                                                                                                           | (860 ~ 960) MHz                                       | BS-2 | N                |

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| Test method             | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                           | Test range                       | Site | Field<br>testing |
|-------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|------------------|
| ETSI EN 301 908-15:2017 | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters | Frequency Range : 9 kHz ~ 18 GHz | BS-2 | N                |
| ETSI EN 301 908-15:2020 | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters                                               | Frequency Range : 9 kHz ~ 18 GHz | BS-2 | N                |
| ETSI EN 301 908-1:2019  | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements                                                                             | 30 MHz ~ 12.75 GHz               | BS-2 | N                |
| ETSI EN 301 908-1:2021  | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements Release 15                                                                  | 30 MHz ~ 26 GHz                  | BS-2 | N                |
| ETSI EN 301 908-1:2023  | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements Release 15                                                                  | 30 MHz ~ 26 GHz                  | BS-2 | N                |
| ETSI EN 303 345-1:2019  | Wired/wireless communication devices | Broadcast Sound Receivers; Part 1: Generic requirements and measuring methods                                                                                                                     | Frequency Range : Max 6 GHz      | BS-2 | N                |
| ETSI EN 303 345-3:2021  | Wired/wireless communication devices | Broadcast Sound Receivers; Part 3: FM broadcast sound service; Harmonised Standard for access to radio spectrum                                                                                   | Frequency Range : Max 6 GHz      | BS-2 | N                |

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| Test method                 | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                               | Test range          | Site | Field<br>testing |
|-----------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------|------------------|
| ETSI EN 303 345:2017        | Wired/wireless communication devices | Broadcast Sound Receivers; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                                                                                                                             | Max. 6 GHz          | BS-2 | N                |
| ETSI EN 303 413:2021        | Wired/wireless communication devices | Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard for access to radio spectrum | 30 MHz ~ 8.3 GHz    | BS-2 | N                |
| ETSI TS 102 230-1:2016      | Wired/wireless communication devices | Smart Cards; UICC-Terminal interface; Physical, electrical and logical test specification; Part 1: Terminal features                                                                                                                                  | (700 ~ 2 600) MHz   | BS-2 | N                |
| ETSI TS 102 230:2015        | Wired/wireless communication devices | Smart cards; UICC-Terminal interface; Physical electrical and logical test specification                                                                                                                                                              | (600 ~ 3 800) MHz   | BS-2 | N                |
| ETSI TS 102 384:2015        | Wired/wireless communication devices | Smart cards; UICC-Terminal interface; Card Application Toolkit(CAT) conformance specification                                                                                                                                                         | (600 ~ 3 800) MHz   | BS-2 | N                |
| FCC Part 15:2014            | Wired/wireless communication devices | Radio Frequency Devices <Exception> Subpart B                                                                                                                                                                                                         | 9 kHz ~ 40 GHz      | BS-2 | N                |
| FCC Part 2.1091:2014        | Wired/wireless communication devices | Radio frequency radiation exposure evaluation :mobile device                                                                                                                                                                                          | 10 MHz ~ 6 GHz      | BS-2 | N                |
| FCC Part 22:2014            | Wired/wireless communication devices | Public Mobile Services - Subpart H. Cellular Radiotelephone Service                                                                                                                                                                                   | (800 ~ 900) MHz     | BS-2 | N                |
| FCC Part 24:2014            | Wired/wireless communication devices | Personal Communications Services - Subpart E. Broadband PCS                                                                                                                                                                                           | (1 800 ~ 2 000) MHz | BS-2 | N                |
| FCC Part 27 Sub part C:2013 | Wired/wireless communication devices | Miscellaneous Wireless communications services                                                                                                                                                                                                        | 9 kHz ~ 26.5 GHz    | BS-2 | N                |



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| Test method                                        | Materials/<br>Products                     | Standard<br>designation                                                                                                                                             | Test range        | Site | Field<br>testing |
|----------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------|------------------|
| FCC Part 90:2014                                   | Wired/wireless<br>communication<br>devices | Private Land Mobile<br>Radio Services                                                                                                                               | (70 ~ 5 000) MHz  | BS-2 | N                |
| FCC Part 95:2014                                   | Wired/wireless<br>communication<br>devices | Personal Radio Services                                                                                                                                             | (200 ~ 1 500) MHz | BS-2 | N                |
| GSM Association<br>Official Document<br>TS.11:2016 | Wired/wireless<br>communication<br>devices | Device Field and Lab<br>Test Guideline                                                                                                                              | (600 ~ 3 800) MHz | BS-2 | Y                |
| ISO/IEC TR 18046-<br>3:2012                        | Wired/wireless<br>communication<br>devices | Information technology<br>- Radio frequency<br>identification device<br>performance test<br>methods<br>- Part 3: Test methods<br>for tag performance                | (860 ~ 960) MHz   | BS-2 | N                |
| KS X ISO/IEC<br>18046-3:2008                       | Wired/wireless<br>communication<br>devices | Information technology<br>- Automatic<br>identification and data<br>capture techniques -<br>Radio frequency<br>identification device<br>performance test<br>methods | (860 ~ 960) MHz   | BS-2 | N                |
| OMA-ETS-<br>MMS:2015                               | Wired/wireless<br>communication<br>devices | Enabler Test<br>Specification for<br>(Conformance) for MMS                                                                                                          | (600 ~ 3 800) MHz | BS-2 | N                |
| OMA-ETS-<br>MMS_INT:2010                           | Wired/wireless<br>communication<br>devices | Enabler Test<br>Specification<br>(Interoperability) for<br>MMS                                                                                                      | (600 ~ 3 800) MHz | BS-2 | N                |
| PTCRB AT-<br>Command Test<br>Specification:2012    | Wired/wireless<br>communication<br>devices | AT-Command Test<br>Specification Covering<br>PTCRB RFT 77                                                                                                           | 9 kHz ~ 12.75 GHz | BS-2 | N                |
| RSS-102:2015                                       | Wired/wireless<br>communication<br>devices | Licence-Exempt Low-<br>power Radio Apparatus<br>Operating in the<br>Television Bands<br>(February 2015)                                                             | (300 ~ 2 500) MHz | BS-2 | N                |
| RSS-119:2011                                       | Wired/wireless<br>communication<br>devices | Land Mobile and Fixed<br>Radio Transmitters and<br>Receivers operating in<br>the frequency 27.41<br>MHz ~ 960 MHz                                                   | (27.41 ~ 960) MHz | BS-2 | N                |
| RSS-132:2013                                       | Wired/wireless<br>communication<br>devices | Cellular Telephones<br>Employing New<br>Technologies Operating<br>in the Bands 824 ~ 849<br>MHz and 864 ~ 894<br>MHz                                                | (800 ~ 900) MHz   | BS-2 | N                |

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| Test method                    | Materials/<br>Products                  | Standard<br>designation                                                                                                                       | Test range          | Site | Field<br>testing |
|--------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------|------------------|
| RSS-133<br>Issue6:2013         | Wired/wireless<br>communication devices | 2GHz Personal<br>Communications<br>Services                                                                                                   | 9 kHz ~ 26.5 GHz    | BS-2 | N                |
| RSS-139<br>Issue2:2009         | Wired/wireless<br>communication devices | Advanced Wireless<br>Services Equipment<br>Operating in the Bands<br>1710-1755 MHz and<br>2110-2155 MHz                                       | 9 kHz ~ 26.5 GHz    | BS-2 | N                |
| RSS-199<br>Issue1:2010         | Wired/wireless<br>communication devices | Broadband Radio<br>Service (BRS) Equipment<br>Operating in the Band<br>2500-2690 MHz<br><Exception><br>Base station                           | 9 kHz ~ 26.5 GHz    | BS-2 | N                |
| RSS-210<br>Amendment<br>1:2015 | Wired/wireless<br>communication devices | Licence-Exempt Low-<br>power Radio Apparatus<br>Operating in the<br>Television Bands<br>(February 2015)                                       | 9 kHz ~ 18 GHz      | BS-2 | N                |
| RSS-213:2005                   | Wired/wireless<br>communication devices | 2 GHz License-exempt<br>Personal<br>Communications Service<br>Devices(PCS)                                                                    | (1 900 ~ 2 000) MHz | BS-2 | N                |
| RSS-247<br>Issue1:2015         | Wired/wireless<br>communication devices | Digital Transmission<br>Systems (DTSS)<br>Frequency Hopping<br>Systems (FHSs) and<br>Licence-Exempt Local<br>Area Network (LE-LAN)<br>Devices | 9 kHz ~ 18 GHz      | BS-2 | N                |
| RSS-310:2011                   | Wired/wireless<br>communication devices | Low-power Licence-<br>exempt Radio<br>communication Devices<br>(All Frequency Bands):<br>Category II Equipment                                | 9 kHz ~ 18 GHz      | BS-2 | N                |

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## 03. Electrical Testing

### 03.009 Lighting devices

| Test method                     | Materials/<br>Products | Standard<br>designation                                                                                                            | Test range                                                       | Site | Field<br>testing |
|---------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------|------------------|
| CIE 117-1995                    | Lighting<br>devices    | Discomfort glare in<br>interior lighting                                                                                           | AC 1 000 V or less<br>UGR : 10 ~ 28                              | BS-1 | N                |
| CIE 150-2017                    | Lighting<br>devices    | Guide on the Limitation<br>of the Effects of<br>Obtrusive Light from<br>Outdoor Lighting<br>Installations, 2nd Edition             | AC 1 000 V or less<br>illuminance in vertical<br>plane : < 25 lx | BS-1 | N                |
| IEC<br>60064:1993/AMD<br>5:2009 | Lighting<br>devices    | Amendment 5 -<br>Tungsten filament lamps<br>for domestic and similar<br>general lighting<br>purposes - Performance<br>requirements | AC 1 000 V or less                                               | BS-1 | N                |
| IEC<br>60081:1997/AMD<br>6:2017 | Lighting<br>devices    | Amendment 6 - Double-<br>Capped Fluorescent<br>Lamps - Performance<br>Specifications                                               | AC 1 000 V or less                                               | BS-1 | N                |
| IEC<br>60112:2003+AMD<br>1:2009 | Lighting<br>devices    | Method for the<br>determination of the<br>proof and the<br>comparative tracking<br>indices of solid<br>insulating materials        | AC 1 000 V or less                                               | BS-1 | N                |
| IEC<br>60155:1993+AMD<br>2:2006 | Lighting<br>devices    | Amendment 2 - Glow-<br>starters for fluorescent<br>lamps                                                                           | AC 1 000 V or less                                               | BS-1 | N                |
| IEC 60188:2001                  | Lighting<br>devices    | High-Pressure Mercury<br>Vapour Lamps<br>- Performance<br>Specifications                                                           | AC 1 000 V or less                                               | BS-1 | N                |
| IEC 60192:2001                  | Lighting<br>devices    | Low-Pressure Sodium<br>Vapour Lamps<br>- Performance<br>Specifications                                                             | AC 1 000 V or less                                               | BS-1 | N                |
| IEC<br>60238:2016/AMD<br>2:2020 | Lighting<br>devices    | Edison Screw Lamp<br>holders                                                                                                       | AC 1 000 V or less                                               | BS-1 | N                |
| IEC<br>60357:2002/AMD<br>3:2011 | Lighting<br>devices    | Amendment 3 -<br>Tungsten Halogen<br>Lamps(non-vehicle) -<br>Performance<br>Specifications                                         | AC 1 000 V or less                                               | BS-1 | N                |

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| Test method                                   | Materials/<br>Products | Standard<br>designation                                                                                                                           | Test range         | Site | Field<br>testing |
|-----------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| IEC<br>60400:2017/AMD<br>1:2020               | Lighting<br>devices    | Lamp holders for<br>Tubular Fluorescent<br>Lamps and Starter<br>holders                                                                           | AC 1 000 V or less | BS-1 | N                |
| IEC 60432-<br>1:1999+AMD1:20<br>05+AMD2:2011  | Lighting<br>devices    | Incandescent lamps -<br>Safety specifications<br>- Part 1: Tungsten<br>filament lamps for<br>domestic and similar<br>general lighting<br>purposes | AC 1 000 V or less | BS-1 | N                |
| IEC<br>60529:1989+AMD<br>1:1999+AMD2:20<br>13 | Lighting<br>devices    | Degrees of protection<br>provided by enclosures<br>(IP Code)                                                                                      | AC 1 000 V or less | BS-1 | N                |
| IEC<br>60570:2003+AMD<br>1:2017+AMD2:20<br>19 | Lighting<br>devices    | Electrical supply track<br>systems for luminaires<br>Fourth Edition                                                                               | AC 1 000 V or less | BS-1 | N                |
| IEC 60598-1:2020                              | Lighting<br>devices    | Luminaires - Part 1:<br>General requirements<br>and tests                                                                                         | AC 1 000 V or less | BS-1 | N                |
| IEC 60598-2-<br>11:2013                       | Lighting<br>devices    | Luminaires - Part2-11:<br>Particular requirements -<br>Aquarium luminaires                                                                        | AC 1 000 V or less | BS-1 | N                |
| IEC 60598-2-<br>1:2020                        | Lighting<br>devices    | Luminaires - Part 2-1:<br>Particular requirements -<br>Fixed general purpose<br>luminaires                                                        | AC 1 000 V or less | BS-1 | N                |
| IEC 60598-2-<br>2:1997                        | Lighting<br>devices    | Luminaires - Part 2:<br>Particular requirements -<br>Section 2: Recessed<br>luminaires                                                            | AC 1 000 V or less | BS-1 | N                |
| IEC 60598-2-<br>2:2011                        | Lighting<br>devices    | Luminaires - Part 2-2:<br>Particular requirements -<br>Recessed luminaires                                                                        | AC 1 000 V or less | BS-1 | N                |
| IEC 60598-2-<br>3:2002+AMD1:20<br>11          | Lighting<br>devices    | Luminaires - Part 2-3:<br>Particular requirements -<br>Luminaires for road and<br>street lighting                                                 | AC 1 000 V or less | BS-1 | N                |
| IEC 60598-2-<br>4:2017                        | Lighting<br>devices    | Luminaires - Part 2-4:<br>Particular requirements -<br>Portable general<br>purpose luminaires                                                     | AC 1 000 V or less | BS-1 | N                |
| IEC 60598-2-<br>8:2013                        | Lighting<br>devices    | Luminaires - Part2-8:<br>Particular requirements -<br>Hand lamps                                                                                  | AC 1 000 V or less | BS-1 | N                |

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| Test method                                  | Materials/<br>Products | Standard<br>designation                                                                                                             | Test range         | Site | Field<br>testing |
|----------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| IEC 60662:2011                               | Lighting<br>devices    | High-Pressure Sodium<br>Vapour Lamps -<br>Performance<br>specifications                                                             | AC 1 000 V or less | BS-1 | N                |
| IEC 60838-<br>1:2016+AMD1:20<br>17+AMD2:2020 | Lighting<br>devices    | Miscellaneous Lamp<br>holders<br>- Part 1: General<br>Requirements and Tests                                                        | AC 1 000 V or less | BS-1 | N                |
| IEC 60838-2-<br>1:1994/AMD2:200<br>4         | Lighting<br>devices    | Amendment 2 -<br>Miscellaneous lamp<br>holders<br>- Part 2-1: Particular<br>requirements - Lamp<br>holders S14                      | AC 1 000 V or less | BS-1 | N                |
| IEC 60838-2-<br>2:2006+AMD1:20<br>12         | Lighting<br>devices    | Miscellaneous lamp<br>holders<br>- Part 2-2: Particular<br>requirements<br>Connectors for LED-<br>modules                           | AC 1 000 V or less | BS-1 | N                |
| IEC<br>60901:1996/AMD<br>6:2014              | Lighting<br>devices    | Amendment 6 - Single-<br>Capped Fluorescent<br>Lamps - Performance<br>Specifications                                                | AC 1 000 V or less | BS-1 | N                |
| IEC<br>60921:2004+AMD<br>1:2006              | Lighting<br>devices    | Ballasts for tubular<br>fluorescent lamps<br>Performance<br>requirements                                                            | AC 1 000 V or less | BS-1 | N                |
| IEC<br>60923:2005+AMD<br>1:2006              | Lighting<br>devices    | Auxiliaries for lamps-<br>Ballasts for discharge<br>lamps (excluding tubular<br>fluorescent lamps) -<br>Performance<br>requirements | AC 1 000 V or less | BS-1 | N                |
| IEC<br>60927:2007+AMD<br>1:2013              | Lighting<br>devices    | Auxiliaries for Lamps -<br>Starting Devices (Other<br>Than Glow Starters) -<br>Performance<br>Requirements                          | AC 1 000 V or less | BS-1 | N                |
| IEC<br>60929:2011+AMD<br>1:2015              | Lighting<br>devices    | AC and / or DC-supplied<br>electronic control gear<br>for tubular fluorescent<br>lamps - Performance<br>requirements                | AC 1 000 V or less | BS-1 | N                |
| IEC 60968:2012                               | Lighting<br>devices    | Self-Ballasted Lamps for<br>General Lighting<br>Services<br>- Safety Requirements                                                   | AC 1 000 V or less | BS-1 | N                |

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| Test method                                   | Materials/<br>Products | Standard<br>designation                                                                                                                                                                             | Test range         | Site | Field<br>testing |
|-----------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| IEC 60968:2015                                | Lighting<br>devices    | Self-ballasted<br>fluorescent lamps for<br>general lighting services<br>- Safety requirements                                                                                                       | AC 1 000 V or less | BS-1 | N                |
| IEC 60969:2016                                | Lighting<br>devices    | Self-ballasted compact<br>fluorescent lamps for<br>general lighting services<br>- performance<br>requirements                                                                                       | AC 1 000 V or less | BS-1 | N                |
| IEC 61047:2004                                | Lighting<br>devices    | D.C. or A.C. supplied<br>electronic step-down<br>convertors for filament<br>lamps - Performance<br>requirements                                                                                     | AC 1 000 V or less | BS-1 | N                |
| IEC<br>61050:1991/AMD<br>1:1994               | Lighting<br>devices    | Amendment 1 -<br>Transformers for tubular<br>discharge lamps having<br>a no-load output<br>voltage exceeding 1 000<br>V(generally called neon-<br>transformers). General<br>and safety requirements | AC 1 000 V or less | BS-1 | N                |
| IEC 61167:2018                                | Lighting<br>devices    | Metal halide lamps -<br>Performance<br>specification                                                                                                                                                | AC 1 000 V or less | BS-1 | N                |
| IEC<br>61184:2017/AMD<br>1:2019               | Lighting<br>devices    | Bayonet lamp holders                                                                                                                                                                                | AC 1 000 V or less | BS-1 | N                |
| IEC<br>61195:1999+AMD<br>1:2012+AMD2:20<br>14 | Lighting<br>devices    | Double-capped<br>fluorescent lamps -<br>Safety specifications                                                                                                                                       | AC 1 000 V or less | BS-1 | N                |
| IEC<br>61199:2011+AMD<br>1:2012+AMD2:20<br>14 | Lighting<br>devices    | Single-capped<br>fluorescent lamps -<br>Safety specifications                                                                                                                                       | AC 1 000 V or less | BS-1 | N                |
| IEC 61347-1:2015                              | Lighting<br>devices    | Lamp control gear - Part<br>1 : General and Safety<br>Requirements                                                                                                                                  | AC 1 000 V or less | BS-1 | N                |
| IEC 61347-<br>1:2015+AMD1:20<br>17            | Lighting<br>devices    | Lamp control gear - Part<br>1 : General and safety<br>requirements                                                                                                                                  | AC 1 000 V or less | BS-1 | N                |

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| Test method                            | Materials/<br>Products | Standard<br>designation                                                                                                                                                        | Test range         | Site | Field<br>testing |
|----------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| IEC 61347-2-10:2000+AMD1:2008          | Lighting devices       | Lamp control gear - Part 2-10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes) | AC 1 000 V or less | BS-1 | N                |
| IEC 61347-2-12:2005+AMD1:2010          | Lighting devices       | Lamp control gear - Part 2-12 : Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps(excluding fluorescent lamps)                         | AC 1 000 V or less | BS-1 | N                |
| IEC 61347-2-1:2000+AMD1:2005+AMD2:2013 | Lighting devices       | Lamp control gear - Part 2-1 : Particular requirements for starting devices (other than glow starters)                                                                         | AC 1 000 V or less | BS-1 | N                |
| IEC 61347-2-2:2000+AMD1:2005+AMD2:2006 | Lighting devices       | Lamp control gear - Part 2-2 : Particular requirements for d.c. or a.c. supplied electronic step-down converts or for filament lamps                                           | AC 1 000 V or less | BS-1 | N                |
| IEC 61347-2-2:2011                     | Lighting devices       | Lamp control gear - Part 2-2 : Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps                                            | AC 1 000 V or less | BS-1 | N                |
| IEC 61347-2-3:2011                     | Lighting devices       | Lamp control gear - Part 2-3 : Particular requirements for a.c. and/or d.c. supplied electronic ballasts for fluorescent lamps                                                 | AC 1 000 V or less | BS-1 | N                |
| IEC 61347-2-3:2011+AMD1:2016           | Lighting devices       | Lamp control gear - Part2-3 : Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamp                                               | AC 1 000 V or less | BS-1 | N                |
| IEC 61347-2-8:2000+AMD1:2006           | Lighting devices       | Lamp control gear - Part 2-8: Particular requirements for ballasts for fluorescent lamps                                                                                       | AC 1 000 V or less | BS-1 | N                |
| IEC 62031:2018                         | Lighting devices       | LED modules for general lighting - Safety specifications                                                                                                                       | AC 1 000 V or less | BS-1 | N                |



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| Test method                           | Materials/<br>Products | Standard<br>designation                                                                                                                                    | Test range                           | Site | Field<br>testing |
|---------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------|------------------|
| IEC<br>62035:2014+AMD<br>1:2016       | Lighting<br>devices    | Discharge lamps<br>(excluding fluorescent<br>lamps) - Safety<br>specifications                                                                             | AC 1 000 V or less                   | BS-1 | N                |
| IEC 62384:2020                        | Lighting<br>devices    | DC or AC supplied<br>electronic control gear<br>for LED modules<br>Performance<br>requirements                                                             | AC 1 000 V or less                   | BS-1 | N                |
| IEC 62471:2006                        | Lighting<br>devices    | Photobiological safety of<br>lamps and lamp systems                                                                                                        | Spectrum range : (250<br>~ 1 600) nm | BS-1 | N                |
| IEC PAS<br>63313:2021                 | Lighting<br>devices    | Position statement on<br>germicide UV-C<br>irradiation UV-C safety<br>guidelines                                                                           | Spectrum range : (250<br>~ 280) nm   | BS-1 | N                |
| IEC TR<br>62778:2014                  | Lighting<br>devices    | Application of IEC<br>62471 for the<br>assessment of blue light<br>hazard to light sources<br>and luminaires                                               | Spectrum range : (380<br>~ 780) nm   | BS-1 | N                |
| IEC 61347-2-<br>13:2014+AMD1:2<br>016 | Lighting<br>devices    | Lamp control gear<br>- Part 2-13 : Particular<br>requirements for d.c. or<br>a.c. supplied electronic<br>control gear for LED<br>modules                   | AC 1 000 V or less                   | BS-1 | N                |
| IEC 61347-2-<br>9:2012                | Lighting<br>devices    | Lamp control gear<br>- Part 2-9: Particular<br>requirements for<br>electromagnetic control<br>gear for discharge lamps<br>(excluding fluorescent<br>lamps) | AC 1 000 V or less                   | BS-1 | N                |
| K 10005:2011                          | Lighting<br>devices    | Safety requirements for<br>electrodeless fluorescent<br>lamp                                                                                               | AC 1 000 V or less                   | BS-1 | N                |
| K 10006:2006                          | Lighting<br>devices    | Safety requirements for<br>induction lamps of PLS<br>type                                                                                                  | AC 1 000 V or less                   | BS-1 | N                |
| K 10021:2021                          | Lighting<br>devices    | Tubular LED lamps of<br>luminaires - Safety<br>requirements                                                                                                | AC 1 000 V or less                   | BS-1 | N                |
| K 10026:2013                          | Lighting<br>devices    | Automatic socket-outlet<br>to cut-off standby<br>power                                                                                                     | AC 1 000 V or less                   | BS-1 | N                |
| K 20002:2010                          | Lighting<br>devices    | Tubular LED lamps using<br>(external) convertor<br>lampholder                                                                                              | AC 1 000 V or less                   | BS-1 | N                |

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|-----------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| K 60838-1:2011        | Lighting<br>devices    | Miscellaneous<br>lampholders<br>Part 1 : General<br>requirements                                                                                                                                        | AC 1 000 V or less | BS-1 | N                |
| K 61047:2008          | Lighting<br>devices    | DC or AC supplied<br>electronic step-down<br>convertors for filament<br>lamp - Performance<br>requirements                                                                                              | AC 1 000 V or less | BS-1 | N                |
| K 61184:2008          | Lighting<br>devices    | Bayonet lampholders                                                                                                                                                                                     | AC 1 000 V or less | BS-1 | N                |
| K 61347-2-<br>10:2009 | Lighting<br>devices    | Lamp controlgear - Part<br>2-10 : Particular<br>requirements for<br>electronic invertors and<br>convertors for high-<br>frequency operation of<br>cold start tubular<br>discharge lamps (neon<br>tubes) | AC 1 000 V or less | BS-1 | N                |
| K 61347-2-<br>12:2009 | Lighting<br>devices    | Lamp controlgear-Part2-<br>12 : Particular<br>requirements for d.c. or<br>a.c. supplied electronic<br>ballasts for discharge<br>lamps (excluding<br>fluorescent lamps)                                  | AC 1 000 V or less | BS-1 | N                |
| KC 10023:2020         | Lighting<br>devices    | Self-ballasted LED lamps<br>for general lighting<br>services                                                                                                                                            | AC 250 V or less   | BS-1 | N                |
| KC 10023:2022         | Lighting<br>devices    | Self-ballasted LED lamps<br>for general lighting<br>services                                                                                                                                            | AC 250 V or less   | BS-1 | N                |
| KC 10025:2018         | Lighting<br>devices    | LED Lamp for<br>Fluorescent Lamp<br>Retrofit-Internal<br>converter type                                                                                                                                 | AC 250 V or less   | BS-1 | N                |
| KC 10025:2022         | Lighting<br>devices    | LED Lamp for<br>Fluorescent Lamp<br>Retrofit-Internal<br>converter type                                                                                                                                 | AC 250 V or less   | BS-1 | N                |
| KC 10030:2019         | Lighting<br>devices    | LED Luminare System<br>Safety Requirements                                                                                                                                                              | 1 000 W or less    | BS-1 | N                |
| KC 20001:2015         | Lighting<br>devices    | Tublar LED lamps using<br>external converter -<br>Safety and Performance<br>Requirements                                                                                                                | G13 D12 cap        | BS-1 | N                |

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| Test method     | Materials/<br>Products | Standard<br>designation                                                                                                                          | Test range         | Site | Field<br>testing |
|-----------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| KC 60064:2015   | Lighting<br>devices    | Tungsten filament lamps<br>for domestic and similar<br>general lighting<br>purposes- Performance<br>requirements                                 | AC 1 000 V or less | BS-1 | N                |
| KC 60081:2017   | Lighting<br>devices    | Double-capped<br>fluorescent lamps -<br>Performance<br>specifications                                                                            | AC 1 000 V or less | BS-1 | N                |
| KC 60155:2015   | Lighting<br>devices    | Glow-starters for<br>fluorescent lamps                                                                                                           | AC 1 000 V or less | BS-1 | N                |
| KC 60188:2015   | Lighting<br>devices    | High-Pressure Mercury<br>Vapour Lamps -<br>Performance<br>specifications                                                                         | AC 1 000 V or less | BS-1 | N                |
| KC 60192:2015   | Lighting<br>devices    | Low-Pressure sodium<br>vapour lamps -<br>Performance<br>specifications                                                                           | AC 1 000 V or less | BS-1 | N                |
| KC 60238:2015   | Lighting<br>devices    | Edison screw<br>lampholders                                                                                                                      | AC 1 000 V or less | BS-1 | N                |
| KC 60357:2015   | Lighting<br>devices    | Tungsten halogen lamps<br>(non-vehicle) -<br>Performance<br>specifications                                                                       | AC 1 000 V or less | BS-1 | N                |
| KC 60400:2021   | Lighting<br>devices    | Lampholders for tubular<br>fluorescent lamps and<br>starterholders                                                                               | AC 1 000 V or less | BS-1 | N                |
| KC 60432-1:2015 | Lighting<br>devices    | Incandescent lamps -<br>Safety specifications<br>Part 1 : Tungsten<br>filament lamps for<br>domestic and similar<br>general lighting<br>purposes | AC 1 000 V or less | BS-1 | N                |
| KC 60432-2:2015 | Lighting<br>devices    | Incandescent lamps -<br>Safety specifications<br>Part 2 : Tungsten<br>halogen lamps for<br>domestic and similar<br>general lighting<br>purposes  | AC 1 000 V or less | BS-1 | N                |
| KC 60432-3:2015 | Lighting<br>devices    | Incandescent lamps -<br>Safety specifications<br>Part 3 : Tungsten<br>halogen lamps (non-<br>vehicle)                                            | AC 1 000 V or less | BS-1 | N                |
| KC 60570:2015   | Lighting<br>devices    | Electrical supply track<br>systems for luminaires                                                                                                | AC 1 000 V or less | BS-1 | N                |

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| Test method            | Materials/<br>Products | Standard<br>designation                                                                                   | Test range         | Site | Field<br>testing |
|------------------------|------------------------|-----------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| KC 60598-1:2015        | Lighting<br>devices    | Luminaires - Part1 :<br>General requirements<br>and tests                                                 | AC 1 000 V or less | BS-1 | N                |
| KC 60598-1:2022        | Lighting<br>devices    | Luminaires - Part1 :<br>General requirements<br>and tests                                                 | AC 1 000 V or less | BS-1 | N                |
| KC 60598-2-<br>1:2021  | Lighting<br>devices    | Luminaires - Part2 :<br>Particular requirements.<br>Section One: Fixed<br>general purpose<br>luminaires   | AC 1 000 V or less | BS-1 | N                |
| KC 60598-2-<br>1:2022  | Lighting<br>devices    | Luminaires - Part2 :<br>Particular requirements.<br>Section One: Fixed<br>general purpose<br>luminaires   | AC 1 000 V or less | BS-1 | N                |
| KC 60598-2-<br>20:2021 | Lighting<br>devices    | Luminaires Part 2-20 :<br>Particular requirements -<br>Lighting chains                                    | AC 250 V 이하        | BS-1 | N                |
| KC 60598-2-<br>20:2022 | Lighting<br>devices    | Luminaires Part 2-20 :<br>Particular requirements -<br>Lighting chains                                    | AC 1 000 V or less | BS-1 | N                |
| KC 60598-2-<br>2:2021  | Lighting<br>devices    | Luminaires - Part2-2 :<br>Particular requirements -<br>Recessed luminaires                                | AC 1 000 V or less | BS-1 | N                |
| KC 60598-2-<br>2:2022  | Lighting<br>devices    | Luminaires - Part2-2 :<br>Particular requirements -<br>Recessed luminaires                                | AC 1 000 V or less | BS-1 | N                |
| KC 60598-2-<br>4:2021  | Lighting<br>devices    | Luminaires - Part2 :<br>Particular requirements -<br>Section 4: Portable<br>general purpose<br>luminaires | AC 250 V 이하        | BS-1 | N                |
| KC 60598-2-<br>4:2022  | Lighting<br>devices    | Luminaires - Part2 :<br>Particular requirements -<br>Section 4: Portable<br>general purpose<br>luminaires | AC 1 000 V or less | BS-1 | N                |
| KC 60598-2-<br>5:2021  | Lighting<br>devices    | Luminaires - Part2-5 :<br>Particular requirements -<br>Floodlights                                        | AC 1 000 V or less | BS-1 | N                |
| KC 60598-2-<br>5:2022  | Lighting<br>devices    | Luminaires - Part2-5 :<br>Particular requirements -<br>Floodlights                                        | AC 1 000 V or less | BS-1 | N                |

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| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                              | Test range         | Site | Field<br>testing |
|-------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| KC 60598-2-6:2015 | Lighting<br>devices    | Luminaires - Part2 :<br>Particular requirements -<br>Section 6: Luminaires<br>with built-in<br>transformers for<br>filament lamps    | AC 1 000 V or less | BS-1 | N                |
| KC 60598-2-8:2021 | Lighting<br>devices    | Luminaires - Part2-8 :<br>Particular requirements -<br>Handlamps                                                                     | AC 1 000 V or less | BS-1 | N                |
| KC 60662:2015     | Lighting<br>devices    | High-pressure sodium<br>vapour lamps -<br>Performance<br>specifications                                                              | AC 1 000 V or less | BS-1 | N                |
| KC 60838-2-1:2015 | Lighting<br>devices    | Miscellaneous<br>lampholders<br>Part 2 : Particular<br>requirements - Section<br>1: Lampholders S14                                  | AC 1 000 V or less | BS-1 | N                |
| KC 60838-2-2:2015 | Lighting<br>devices    | Miscellaneous<br>lampholders<br>Part 2-2 : Particular<br>requirements -<br>Connectors for LED-<br>modules                            | AC 1 000 V or less | BS-1 | N                |
| KC 60838-2-2:2022 | Lighting<br>devices    | Miscellaneous<br>lampholders<br>Part 2-2 : Particular<br>requirements -<br>Connectors for LED-<br>modules                            | AC 1 000 V or less | BS-1 | N                |
| KC 60901:2017     | Lighting<br>devices    | Single-capped<br>fluorescent lamps -<br>Performance<br>specifications                                                                | AC 1 000 V or less | BS-1 | N                |
| KC 60921:2015     | Lighting<br>devices    | Ballasts for tubular<br>fluorescent lamps -<br>Performance<br>requirements                                                           | AC 1 000 V or less | BS-1 | N                |
| KC 60923:2015     | Lighting<br>devices    | Auxiliaries for lamps<br>- Ballasts for discharge<br>lamps (excluding tubular<br>fluorescent lamps) -<br>Performance<br>requirements | AC 1 000 V or less | BS-1 | N                |
| KC 60927:2015     | Lighting<br>devices    | Auxiliaries for lamps<br>- Starting devices (other<br>than glow starters) -<br>Performance<br>requirements                           | AC 1 000 V or less | BS-1 | N                |

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| Test method   | Materials/<br>Products | Standard<br>designation                                                                                                                                                                  | Test range         | Site | Field<br>testing |
|---------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| KC 60927:2022 | Lighting<br>devices    | Auxiliaries for lamps<br>- Starting devices (other<br>than glow starters) -<br>Performance<br>requirements                                                                               | AC 1 000 V or less | BS-1 | N                |
| KC 60929:2015 | Lighting<br>devices    | AC and/or DC-supplied<br>electronic control gear<br>for tubular fluorescent<br>lamps<br>- Performance<br>requirements                                                                    | AC 1 000 V or less | BS-1 | N                |
| KC 60929:2022 | Lighting<br>devices    | AC and/or DC-supplied<br>electronic control gear<br>for tubular fluorescent<br>lamps<br>- Performance<br>requirements                                                                    | AC 1 000 V or less | BS-1 | N                |
| KC 60968:2015 | Lighting<br>devices    | Self-ballasted<br>fluorescent lamps for<br>general lighting services<br>- Safety requirements                                                                                            | AC 1 000 V or less | BS-1 | N                |
| KC 60968:2022 | Lighting<br>devices    | Self-ballasted lamps for<br>general lighting services<br>- Safety requirements                                                                                                           | AC 1 000 V or less | BS-1 | N                |
| KC 60969:2015 | Lighting<br>devices    | Self-ballasted lamps for<br>general lighting services<br>- Performance<br>requirements                                                                                                   | AC 1 000 V or less | BS-1 | N                |
| KC 61050:2015 | Lighting<br>devices    | Transformers for tubular<br>discharge lamps having<br>a no-load output<br>voltage exceeding 1 000<br>V (generally called neon-<br>transformers).<br>- General and safety<br>requirements | AC 1 000 V or less | BS-1 | N                |
| KC 61050:2022 | Lighting<br>devices    | Transformer for tubular<br>discharge lamps having<br>a no-load output<br>voltage exceeding 1000<br>V - General and safety<br>requirements                                                | AC 1 000 V or less | BS-1 | N                |
| KC 61167:2015 | Lighting<br>devices    | Metal halide lamps                                                                                                                                                                       | AC 1 000 V or less | BS-1 | N                |
| KC 61195:2020 | Lighting<br>devices    | Double-capped<br>fluorescent lamps -<br>Safety specifications                                                                                                                            | AC 1 000 V or less | BS-1 | N                |
| KC 61199:2020 | Lighting<br>devices    | Single-capped<br>fluorescent lamps -<br>Safety specifications                                                                                                                            | AC 1 000 V or less | BS-1 | N                |

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| Test method            | Materials/<br>Products | Standard<br>designation                                                                                                                                                        | Test range            | Site | Field<br>testing |
|------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------|------------------|
| KC 61347-1:2015        | Lighting<br>devices    | Lamp controlgear - Part<br>1 : General and safety<br>requirements                                                                                                              | AC 1 000 V or less    | BS-1 | N                |
| KC 61347-1:2022        | Lighting<br>devices    | Lamp controlgear - Part<br>1 : General and safety<br>requirements                                                                                                              | AC/DC 1 000 V or less | BS-1 | N                |
| KC 61347-2-<br>11:2015 | Lighting<br>devices    | Lamp controlgear - Part<br>2-11 : Particular<br>requirements for<br>miscellaneous electronic<br>circuits used with<br>luminaires                                               | AC 1 000 V or less    | BS-1 | N                |
| KC 61347-2-<br>12:2022 | Lighting<br>devices    | Lamp controlgear Part<br>2-12:<br>Particular requirements<br>for d.c.<br>or a.c. supplied<br>electronic<br>ballasts for discharge<br>lamps<br>(excluding fluorescent<br>lamps) | AC 1 000 V or less    | BS-1 | N                |
| KC 61347-2-<br>13:2015 | Lighting<br>devices    | Lamp controlgear - Part<br>2-13 : Particular<br>requirements for d.c. or<br>a.c. supplied electronic<br>controlgear for LED<br>modules                                         | AC 1 000 V or less    | BS-1 | N                |
| KC 61347-2-<br>13:2022 | Lighting<br>devices    | Lamp controlgear<br>- Part 2 - 13 : Particular<br>requirements for d.c. or<br>a.c. supplied electronic<br>controlgear for LED<br>modules                                       | AC/DC 1 000 V or less | BS-1 | N                |
| KC 61347-2-<br>1:2015  | Lighting<br>devices    | Lamp controlgear - Part<br>2-1 : Particular<br>requirements for<br>starting devices (other<br>than glow starters)                                                              | AC 1 000 V or less    | BS-1 | N                |
| KC 61347-2-<br>2:2015  | Lighting<br>devices    | Lamp controlgear - Part<br>2-2 : Particular<br>requirements for d.c. or<br>a.c. supplied electronic<br>step-down converters<br>for filament lamps                              | AC 1 000 V or less    | BS-1 | N                |
| KC 61347-2-<br>3:2015  | Lighting<br>devices    | Lamp controlgear - Part<br>2-3 : Particular<br>requirements for a.c.<br>and/or d.c. supplied<br>electronic controlgear<br>for fluorescent lamps                                | AC 1 000 V or less    | BS-1 | N                |



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| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                 | Test range         | Site | Field<br>testing |
|-------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| KC 61347-2-8:2015 | Lighting devices       | Lamp controlgear - Part 2-8 : Particular requirements for ballasts for fluorescent lamps                                                | AC 1 000 V or less | BS-1 | N                |
| KC 61347-2-8:2022 | Lighting devices       | Lamp controlgear - Part 2-8 : Particular requirements for ballasts for fluorescent lamps                                                | AC 1 000 V or less | BS-1 | N                |
| KC 61347-2-9:2015 | Lighting devices       | Lamp controlgear - Part 2-9 : Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps) | AC 1 000 V or less | BS-1 | N                |
| KC 61347-2-9:2022 | Lighting devices       | Lamp controlgear - Part 2 - 9 : Particular requirements for electromagnetic controlgear for discharge lamps                             | AC 1 000 V or less | BS-1 | N                |
| KC 62031:2015     | Lighting devices       | LED modules for general lighting-Safety specifications                                                                                  | AC 1 000 V or less | BS-1 | N                |
| KC 62031:2022     | Lighting devices       | LED modules for general lighting-Safety specifications                                                                                  | AC 1 000 V or less | BS-1 | N                |
| KC 62035:2020     | Lighting devices       | Discharge lamps (excluding fluorescent lamps) - Safety                                                                                  | AC 1 000 V or less | BS-1 | N                |
| KC 62384:2014     | Lighting devices       | DC or AC supplied electronic control gear for LED modules - Performance requirements                                                    | AC 1 000 V or less | BS-1 | N                |
| KS C 7651:2021    | Lighting devices       | LED lamps using internal converter                                                                                                      | AC 1 000 V or less | BS-1 | N                |
| KS C 7652:2021    | Lighting devices       | LED lamps using external converter                                                                                                      | AC 1 000 V or less | BS-1 | N                |
| KS C 7653:2021    | Lighting devices       | Recessed and Fixed Luminaires                                                                                                           | AC 1 000 V or less | BS-1 | N                |
| KS C 7655:2021    | Lighting devices       | Electronic converter for LED modules                                                                                                    | AC 1 000 V or less | BS-1 | N                |
| KS C 7656:2021    | Lighting devices       | LED lamps using Portable Luminaires                                                                                                     | AC 1 000 V or less | BS-1 | N                |

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| Test method                                                                             | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                       | Test range                                                                                                                                  | Site | Field<br>testing |
|-----------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C 7657:2021                                                                          | Lighting<br>devices    | Sensor LED luminaires                                                                                                                                                                                                                                                                                                                                                                         | AC 1 000 V or less                                                                                                                          | BS-1 | N                |
| KS C 7658:2021                                                                          | Lighting<br>devices    | LED Luminaires for Road<br>and Street Lighting -<br>Safety and performance<br>requirements                                                                                                                                                                                                                                                                                                    | AC 1 000 V or less                                                                                                                          | BS-1 | N                |
| KS C 7659:2013                                                                          | Lighting<br>devices    | LED module for Channel<br>Letter Signs - Safety and<br>performance<br>requirements                                                                                                                                                                                                                                                                                                            | AC 1 000 V or less                                                                                                                          | BS-1 | N                |
| KS C 7711:2021                                                                          | Lighting<br>devices    | LED ground recessed<br>luminaires                                                                                                                                                                                                                                                                                                                                                             | AC 1 000 V or less                                                                                                                          | BS-1 | N                |
| KS C 7712:2021                                                                          | Lighting<br>devices    | LED flood-lighting<br>luminaires                                                                                                                                                                                                                                                                                                                                                              | AC 1 000 V or less                                                                                                                          | BS-1 | N                |
| KS C 7713:2021                                                                          | Lighting<br>devices    | LED landscape lighting                                                                                                                                                                                                                                                                                                                                                                        | AC 1 000 V or less                                                                                                                          | BS-1 | N                |
| KS C 7716:2021                                                                          | Lighting<br>devices    | LED tunnel luminaires                                                                                                                                                                                                                                                                                                                                                                         | 400 W or less                                                                                                                               | BS-1 | N                |
| KS C IEC<br>61167:2019                                                                  | Lighting<br>devices    | Metal halide lamps -<br>Performance<br>specification                                                                                                                                                                                                                                                                                                                                          | AC 1 000 V or less                                                                                                                          | BS-1 | N                |
| KS C IEC<br>62035:2017                                                                  | Lighting<br>devices    | Discharge lamps<br>(excluding fluorescent<br>lamps) - Safety                                                                                                                                                                                                                                                                                                                                  | AC 1 000 V or less                                                                                                                          | BS-1 | N                |
| National Police<br>Agency, LED traffic<br>light standard<br>guidelines(04. 27.<br>2022) | Lighting<br>devices    | LED traffic signal<br>standard directive<br><br>[Exception]<br>2. Controller<br>compatibility test<br>3. Environmental test<br>(3) Light output<br>fluctuation test<br>(4) Thermal shock<br>resistance test<br>4. Electrical test<br>(9) On/Off response test<br>(10) Impedance test<br>5. Optical performance<br>test<br>(2) Luminous intensity<br>distribution test<br>(4) Sun-Phantom test | Below Vac 250 V<br>Below input current 20<br>A<br>Insulation resistance :<br>(0 ~ 500) MΩ<br>Luminance : (0 ~ 500<br>000) cd/m <sup>2</sup> | BS-1 | N                |

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| Test method                                                                                                                             | Materials/<br>Products | Standard<br>designation                                                              | Test range                                                                                                                                        | Site | Field<br>testing |
|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| National Police<br>Agency, Recessed<br>type pedestrian<br>traffic light<br>auxiliary device<br>standard<br>guidelines(07. 20.<br>2022.) | Lighting<br>devices    | Recessed type<br>pedestrian traffic signal<br>auxiliary device standard<br>directive | Skid resistor : (0 ~ 150)<br>BPN<br>Static load : Max. 5 kN<br>Chromaticity : (0.009 ~<br>0.720)<br>Luminance : (0 ~ 50<br>000) cd/m <sup>2</sup> | BS-1 | N                |

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## 03. Electrical Testing

### 03.010 Medical devices

| Test method         | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                   | Test range                                                                                                                                           | Site | Field<br>testing |
|---------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60601-1-11:2010 | Medical devices        | Medical electrical equipment<br>- Part 1-11 : General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment | Acceleration : (15 ~ 100) g<br>Duration : 6 ms ~ 30 min<br>Acceleration amplitude : (10 ~ 2 000) Hz<br>Fall height : (0.01 ~ 0.25) m                 | BS-1 | N                |
| IEC 60601-1-11:2015 | Medical devices        | Medical electrical equipment<br>- Part 1-11 : General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment | Acceleration : (15 ~ 100) g<br>Duration : 6 ms ~ 30 min<br>Acceleration amplitude : (10 ~ 2 000) Hz<br>Fall height : (0.01 ~ 0.25) m                 | BS-1 | N                |
| IEC 60601-1-3:2008  | Medical devices        | Medical electrical equipment<br>- Part 1-3 : General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment                                                                    | Distance : 3 000 mm<br>Tube Voltage : 18 kVp ~ 160 kVp<br>Tube Current : (1 ~ 2 000) mA<br>Illumination : 1 500 lx<br>Radiation dose : 2 uR ~ 100 kR | BS-1 | Y                |
| IEC 60601-1-3:2013  | Medical devices        | Medical electrical equipment<br>- Part 1-3 : General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment                                                                    | Distance : 3 000 mm<br>Tube Voltage : 18 kVp ~ 160 kVp<br>Tube Current : (1 ~ 2 000) mA<br>Illumination : 1 500 lx<br>Radiation dose : 2 uR ~ 100 kR | BS-1 | Y                |
| IEC 60601-1-6:2013  | Medical devices        | Medical electrical equipment<br>- Part 1-6 : General requirements for basic safety and essential performance - Collateral standard : Usability                                                                                                            | Input Voltage : (0 ~ 520) Vac<br>Voltage : (0 ~ 1 000) Vac/Vdc<br>Input Current : 20 A<br>Current : 1 000 A<br>Input Frequency : (45 ~ 66) Hz        | BS-1 | N                |

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| Test method        | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                           | Test range                                                                                                                                                                                                                                                                                                                                                                | Site | Field<br>testing |
|--------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60601-1-8:2012 | Medical<br>devices     | Medical electrical<br>equipment<br>- Part 1-8 : General<br>requirements for basic<br>safety and essential<br>performance - Collateral<br>standard: General<br>requirements, tests and<br>guidance for alarm<br>systems in medical<br>electrical and medical<br>electrical systems | Illuminance : (100 ~ 1<br>500) lx<br>Frequency : (150 ~ 4<br>000) Hz<br>Sound level : (28 ~<br>138) dBA                                                                                                                                                                                                                                                                   | BS-1 | N                |
| IEC 60601-1:2005   | Medical<br>devices     | Medical electrical<br>equipment<br>- Part 1 : General<br>requirements for basic<br>safety and essential<br>performance                                                                                                                                                            | Input Voltage : (0 ~<br>520) Vac<br>Voltage : (0 ~ 1 000)<br>Vac/Vdc<br>Input Current : 20 A<br>Current : 1 000 A<br>Input Frequency : (45 ~<br>66) Hz<br>Input Temperature : (0<br>~ 150) °C<br>Temperature : (0 ~<br>200) °C<br>Input Humidity : 93 %<br>R.H.<br>Humidity : 93 % R.H.<br>Distance : 3 000 mm<br>Resistance : 0.1 Ω<br>Radiation dose : 2 uR ~<br>100 kR | BS-1 | Y                |
| IEC 60601-1:2012   | Medical<br>devices     | Medicale electrical<br>equipment<br>- Part 1 : General<br>requirements for basic<br>safety and essential<br>performance                                                                                                                                                           | Input Voltage : (0 ~<br>520) Vac<br>Voltage : (0 ~ 1 000)<br>Vac/Vdc<br>Input Current : 20 A<br>Current : 1 000 A<br>Input Frequency : (45 ~<br>66) Hz<br>Input Temperature : (0<br>~ 150) °C<br>Temperature : (0 ~<br>200) °C<br>Input Humidity : 93 %<br>R.H.<br>Humidity : 93 % R.H.<br>Distance : 3 000 mm<br>Resistance : 0.1 Ω<br>Radiation dose : 2 uR ~<br>100 kR | BS-1 | Y                |

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| Test method         | Materials/<br>Products | Standard<br>designation                                                                                                                                                                          | Test range                                                                                                                                                            | Site | Field<br>testing |
|---------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60601-2-22:2007 | Medical devices        | Medical electrical equipment<br>- Part 2-22 : Particular requirements for basic safety and essential performance of surgical cosmetic therapeutic and diagnostic laser equipment                 | Laser power : 1 nW ~ 250 W<br>Laser energy : 100 J ~ 40 J                                                                                                             | BS-1 | N                |
| IEC 60601-2-22:2019 | Medical devices        | Medical electrical equipment<br>- Part 2-22 : Particular requirements for basic safety and essential performance of surgical cosmetic therapeutic and diagnostic laser equipment                 | Laser power : 1 nW ~ 250 W<br>Laser energy : 100 J ~ 40 J                                                                                                             | BS-1 | N                |
| IEC 60601-2-25:2011 | Medical devices        | Medical electrical equipment<br>- Part 2-25 : Particular requirements for the basic safety and essential performance of electrocardiographs                                                      | Applied voltage : (0.1 ~ 10) mVp-v<br>Frequency : (0.05 ~ 500) Hz<br>Applied pulse duration : (2 ~ 300) ms<br>DC offset : $\pm 1\ 000$ mV                             | BS-1 | N                |
| IEC 60601-2-27:2011 | Medical devices        | Medical electrical equipment<br>- Part 2-27 : Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment                                | Applied voltage : (0.1 ~ 10) mVp-v<br>Frequency : (0.05 ~ 500) Hz<br>Applied pulse Duration : (2 ~ 300) ms<br>DC offset : $\pm 300$ mV                                | BS-1 | N                |
| IEC 60601-2-28:2017 | Medical devices        | Medical electrical equipment<br>- Part 2-28 : Particular requirements for the basic safety and essential performance of X-ray tube assemblies for medical diagnosis                              | Input Voltage : (0 ~ 520) Vac<br>Voltage : (0 ~ 1 000) Vac/Vdc<br>Input Current : 20 A<br>Current : 1 000 A<br>Input Frequency : (45 ~ 66) Hz                         | BS-1 | Y                |
| IEC 60601-2-2:2017  | Medical devices        | Medical electrical equipment<br>- Part 2-2 : Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories | HF leakage current : (0 ~ 150) mA<br>HF output : (0 ~ 400) W<br>Monitoring voltage : (1 ~ 12) V<br>Force : (11 ~ 50) N<br>AC impedance : (2 001 ~ 1 000 000) $\Omega$ | BS-1 | N                |

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| Test method         | Materials/<br>Products | Standard<br>designation                                                                                                                                                     | Test range                                                                                                                                                                                                        | Site | Field<br>testing |
|---------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60601-2-34:2011 | Medical devices        | Medical electrical equipment<br>- Part 2-34 : Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment        | Pressure : (0 ~ 400) mmHg<br>Blood pressure :<br>Systolic (120 ~ 130) mmHg / diastolic (80 ~ 90) mmHg                                                                                                             | BS-1 | N                |
| IEC 60601-2-37:2015 | Medical devices        | Medical electrical equipment - Part 2-37 : Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment | Input Voltage : (0 ~ 520) Vac<br>Voltage : (0 ~ 1 000) Vac/Vdc<br>Input Current : 20 A<br>Current : 1 000 A<br>Input Frequency : (45 ~ 66) Hz<br>Ultrasonic output power : (1 ~ 30) W<br>Frequency : (1 ~ 40) MHz | BS-1 | N                |
| IEC 60601-2-3:2016  | Medical devices        | Medical electrical equipment<br>- Part 2-3 : Particular requirements for the basic safety and essential performance of short-Wave therapy equipment                         | Output : (0 ~ 500) W<br>time : (1 ~ 30) min                                                                                                                                                                       | BS-1 | N                |
| IEC 60601-2-49:2011 | Medical devices        | Medical electrical equipment<br>- Part 2-49 : Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment          | Voltage measure range :<br>(0.001 ~ 1 000) Vac<br>(0.001 ~ 1 000) Vdc<br>Time measure range :<br>(0 ~ 30) S                                                                                                       | BS-1 | N                |
| IEC 60601-2-4:2018  | Medical devices        | Medical electrical equipment<br>- Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators                                | Energy : (0.1 ~ 360) J<br>Load resistance : (25, 50, 75, 100, 125, 150, 175, 200) $\Omega$<br>Time: (0.1 ~ 100.0) s<br>Voltage (0 ~ 5) kVdc                                                                       | BS-1 | N                |



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| Test method         | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                         | Test range                                                                                                                 | Site | Field<br>testing |
|---------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60601-2-54:2018 | Medical devices        | Medical electrical equipment<br>- Part 2-54 : Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy<br><Exception><br>203.6.3.2.102 Linearity and constancy in RADIOGRAPHY<br>b) Reproducibility of AUTOMATIC EXPOSURE CONTROLS for DIRECT RADIOGRAPHY<br>c) Constancy of AUTOMATIC EXPOSURE CONTROLS for DIRECT RADIOGRAPHY | Distance : 3 000 mm<br>Tube Voltage : 35 kVp ~ 160 kVp<br>Tube Current : 1 mA ~ 2 000 mA<br>Radiation dose : 2 uR ~ 100 kR | BS-1 | Y                |
| IEC 60601-2-57:2011 | Medical devices        | Medical electrical equipment<br>- Part 2-57 : Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use                                                                                                                                                            | Laser power : 1 nW ~ 250 W<br>Laser energy : 100 J ~ 40 J                                                                  | BS-1 | N                |
| IEC 60601-2-5:2009  | Medical devices        | Medical electrical equipment<br>- Part 2-5 : Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment                                                                                                                                                                                                                                       | Ultrasonic output power : (1 ~ 30) W<br>Frequency : (1 ~ 10) MHz                                                           | BS-1 | N                |
| IEC 60601-2-62:2013 | Medical devices        | Medical electrical equipment<br>- Part 2-62 : Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment                                                                                                                                                                                                                  | Frequency : (1 ~ 10) MHz<br>Ultra sound Power : (0 ~ 30) W                                                                 | BS-1 | N                |

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| Test method         | Materials/<br>Products | Standard<br>designation                                                                                                                                          | Test range                                                                                                                                                                                                                | Site | Field<br>testing |
|---------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60601-2-63:2017 | Medical devices        | Medical electrical equipment<br>- Part 2-63 : Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment        | Distance : 3 000 mm<br>Tube Voltage : (35 ~ 105) kVp<br>Tube Current : (1 ~ 2 000) mA<br>Radiation dose : 2 uR ~ 100 kR                                                                                                   | BS-1 | Y                |
| IEC 62366:2014      | Medical devices        | Medical devices - Application of usability engineering to medical devices                                                                                        | Input Voltage : (0 ~ 520) Vac<br>Voltage : (0 ~ 1 000) Vac/Vdc<br>Input Current : 20 A<br>Current : 1 000 A<br>Input Frequency : (45 ~ 66) Hz                                                                             | BS-1 | N                |
| IEC 80601-2-30:2018 | Medical devices        | Medical electrical equipment<br>- Part 2-30 : Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers | Temperature : (10 ~ 40) °C<br>Humidity : (15 ~ 85) %<br>Pressure : (0 ~ 360) mmHg<br>Acceleration : (15 ~ 100) g<br>duration : 6 ms ~ 30 min<br>acceleration amplitude : (10 ~ 2 000) Hz<br>Fall height : (0.01 ~ 0.25) m | BS-1 | N                |
| ISO 80601-2-61:2017 | Medical devices        | Medical electrical equipment<br>- Part 2-61 : Particular requirements for basic safety and essential performance of pulse oximeter equipment                     | Acceleration : (15 ~ 100) g<br>duration : 6 ms ~ 30 min<br>acceleration amplitude : (10 ~ 2000) Hz<br>Fall height : (0.01 ~ 0.25) m                                                                                       | BS-1 | N                |

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## 03. Electrical Testing

### 03.011 EMC (Electromagnetic Compatibility)

| Test method         | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test range                                                                                                       | Site | Field<br>testing |
|---------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------|------------------|
| 2006/28/EC:2006     | Wired/wireless<br>communication<br>devices | Adapting to technical<br>progress Council<br>Directive 72/245/EEC<br>relating to the radio<br>interference<br>(electromagnetic<br>compatibility) of vehicles<br>and amending Directive<br>70/156/EEC on the<br>approximation of the<br>laws of the Member<br>States relating to the<br>type-approval of motor<br>vehicles and their<br>trailers.<br><Exception><br>ANNEX IV Method of<br>measurement of<br>radiated broadband<br>electromagnetic<br>emissions from vehicles<br>ANNEX V Method of<br>measurement of<br>radiated narrowband<br>electromagnetic<br>emissions from vehicles.<br>ANNEX VI Method of<br>testing for immunity of<br>vehicles to<br>electromagnetic<br>radiation | RE : 30 MHz ~ 1 GHz<br>BCI : 20 MHz ~ 400<br>MHz, 60 mA<br>RI : 80 MHz ~ 2 GHz,<br>30 V/m<br>TI : -450 V ~ 150 V | BS-2 | N                |
| 3GPP<br>34.124:2018 | Wired/wireless<br>communication<br>devices | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network; Electro<br>Magnetic<br>Compatibility(EMC)<br>requirements for mobile<br>terminals and ancillary<br>equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CE : 150 kHz ~ 30 MHz<br>RE : Max. 18 GHz                                                                        | BS-2 | N                |

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| Test method                      | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test range                                                                                                       | Site | Field<br>testing |
|----------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------|------------------|
| 95/54/EC:1995                    | Wired/wireless<br>communication<br>devices                                              | Adapting to technical<br>progress Council<br>Directive 72/245/EEC on<br>the approximation of<br>the laws of the Member<br>States relating to the<br>suppression of radio<br>interference produced<br>by spark-ignition<br>engines fitted to motor<br>vehicles and amending<br>Directive 70/156/EEC on<br>the approximation of<br>the laws of the Member<br>States relating to the<br>type-approval of motor<br>vehicles and their<br>trailers.<br><Exception><br>ANNEX IV Method of<br>measurement of<br>radiated broadband<br>electromagnetic<br>emissions from vehicles.<br>ANNEX V Method of<br>measurement of<br>radiated narrowband<br>electromagnetic<br>emissions from vehicles.<br>ANNEX VI Method of<br>testing for immunity of<br>vehicles to<br>electromagnetic<br>radiation. | RE : 30 MHz ~ 1 GHz<br>BCI : 20 MHz ~ 400<br>MHz, 60 mA<br>RI : 80 MHz ~ 2 GHz,<br>30 V/m<br>TI : -450 V ~ 150 V | BS-2 | N                |
| 95/56/EC:1995                    | Wired/wireless<br>communication<br>devices                                              | Adapting to technical<br>progress Council<br>Directive 74/61/EEC<br>relating to devices to<br>prevent the<br>unauthorized use of<br>motor vehicles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RE : 30 MHz ~ 1 GHz<br>BCI : 20 MHz ~ 400<br>MHz, 60 mA<br>RI : 80 MHz ~ 2 GHz,<br>30 V/m<br>TI : -450 V ~ 150 V | BS-2 | N                |
| ABNT NBR IEC<br>61000-4-2 (2013) | Wired/wireless<br>communication<br>devices                                              | Electromagnetic<br>compatibility Part 4-2:<br>Testing and<br>measurement<br>techniques —<br>Electrostatic discharge<br>immunity test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Voltage : ±30 kV                                                                                                 | BS-2 | N                |
| ABNT NBR IEC<br>61000-4-2:2013   | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>Compatibility (EMC)<br>- Part 4-2: Testing and<br>Measurement<br>Techniques -<br>Electrostatic Discharge<br>Immunity Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Max. ±30 kV, 150 pF<br>/330 Ω                                                                                    | BS-1 | N                |

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| Test method                      | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                        | Test range                                                      | Site | Field<br>testing |
|----------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------|------------------|
| ABNT NBR IEC<br>61000-4-3:2022   | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility (EMC)<br>- Part 4-3: Testing and<br>measurement<br>techniques - Radiated,<br>radio-frequency,<br>electromagnetic field<br>immunity test       | RS : 80 MHz ~ 6 GHz,<br>10 V/m                                  | BS-1 | N                |
| ABNT NBR IEC<br>61000-4-4 (2015) | Wired/wireless<br>communication<br>devices                                              | Electromagnetic<br>Compatibility Part 4-4:<br>Testing and<br>Measurement<br>Techniques — Electrical<br>fast transients/burst                                                   | Voltage : $\pm 7$ kV                                            | BS-2 | N                |
| ABNT NBR IEC<br>61000-4-4:2015   | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility (EMC)<br>- Part 4-4: Testing and<br>measurement<br>techniques -Electrical<br>fast transient/burst<br>immunity test                            | EFT : $\pm 4$ kV                                                | BS-1 | N                |
| ABNT NBR IEC<br>61000-4-5 (2020) | Wired/wireless<br>communication<br>devices                                              | Electromagnetic<br>compatibility Part 4-5:<br>Testing and<br>measurement<br>techniques — Surge<br>immunity test                                                                | Voltage : $\pm 7$ kV                                            | BS-2 | N                |
| ABNT NBR IEC<br>61000-4-5:2020   | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>Compatibility (EMC)<br>- Part 4-5: Testing and<br>Measurement<br>Techniques - Surge<br>Immunity Test                                                        | SURGE : $\pm 6$ kV                                              | BS-1 | N                |
| ABNT NBR IEC<br>61000-4-6 (2019) | Wired/wireless<br>communication<br>devices                                              | Electromagnetic<br>compatibility Part 4-6:<br>Testing and<br>measurement<br>techniques - Immunity<br>to conducted<br>disturbances, induced by<br>radio-frequency fields        | Freq. : 150 kHz ~ 230<br>MHz<br>Voltage : 30 V                  | BS-2 | N                |
| ABNT NBR IEC<br>61000-4-6:2019   | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility (EMC)<br>- Part 4-6: Testing and<br>measurement<br>techniques - Immunity<br>to conducted<br>disturbances induced by<br>radio-frequency fields | Frequency range : 150<br>kHz ~ 80 MHz<br>Voltage : Max. 10 Vrms | BS-1 | N                |

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| Test method                          | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                                                               | Test range                                                                                                                 | Site | Field<br>testing |
|--------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ABNT NBR IEC<br>61000-6-3 (2022)     | Wired/wireless<br>communication<br>devices                                              | Electromagnetic<br>compatibility: ac (EMC)<br>Part 6-3: Generic<br>standard - Emission<br>standard for equipment<br>in residential<br>environments                                                                                    | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>Harmonic, flicker AC<br>Input Current : Max.<br>75 A (per phase)           | BS-2 | N                |
| ABNT NBR IEC<br>61000-6-3:2022       | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility (EMC)<br>- Part 6-3: Generic<br>Standards - Emission<br>Standard for equipment<br>in residential<br>environments                                                                                     | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                               | BS-1 | N                |
| ABNT NBR<br>IEC/CISPR 11<br>(2020)   | Wired/wireless<br>communication<br>devices                                              | Industrial, scientific and<br>medical equipment<br>- Radio-frequency<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement                                                                                      | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz                                                                               | BS-2 | N                |
| ABNT NBR<br>IEC/CISPR 11:2020        | Electrical<br>machinery for<br>industries,<br>Medical<br>devices                        | Industrial, scientific and<br>medical equipment -<br>Radio-frequency<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement<br><exception><br>6.3.2.3 Table 10<br>radiation disturbance<br>limits(distance 30 m) | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz                                                       | BS-1 | N                |
| ABNT NBR<br>IEC/CISPR 14-1<br>(2021) | Wired/wireless<br>communication<br>devices                                              | Electromagnetic<br>compatibility<br>- Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus Part 1:<br>Emission                                                                                        | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 6 GHz<br>DCE : 150 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 300<br>MHz | BS-2 | N                |
| ABNT NBR<br>IEC/CISPR 14-<br>1:2021  | Electrical<br>machinery for<br>households                                               | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances<br>electric tools and similar<br>apparatus<br>- Part 1: Emission                                                                                       | CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 9 kHz ~ 6 GHz | BS-1 | N                |
| ABNT NBR<br>IEC/CISPR 15<br>(2019)   | Wired/wireless<br>communication<br>devices                                              | Limits and methods and<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment                                                                                                   | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 1 GHz<br>MFE : 9 kHz ~ 30 MHz                                                          | BS-2 | N                |

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| Test method                        | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                           | Test range                                                                                                                                                                  | Site | Field<br>testing |
|------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ABNT NBR<br>IEC/CISPR 15:2019      | Lighting<br>devices                        | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><exception><br>4.5.2 Table 8 - Radiated<br>disturbance limits in the<br>frequency range 9 kHz<br>to 30 MHz (loop<br>diameter : 3 m and 4 m) | RE : 9 kHz ~ 1 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz                                                                                                           | BS-1 | N                |
| ABNT NBR<br>IEC/CISPR 25<br>(2010) | Wired/wireless<br>communication<br>devices | Vehicles, vessels and<br>internal combustion<br>engines - Characteristics<br>of radio frequency<br>disturbances - Limits and<br>measurement methods<br>for protecting on-board<br>receivers                                                                                       | CE-V : 150 kHz ~ 108<br>MHz<br>CE-S : 150 kHz ~ 108<br>MHz<br>RE : 150 kHz ~ 2.5 GHz                                                                                        | BS-2 | N                |
| ABNT NBR<br>IEC/CISPR 32<br>(2021) | Wired/wireless<br>communication<br>devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Emission requirements                                                                                                                                                                                            | CE(power ports) : 150<br>kHz ~ 30 MHz<br>CE(signal ports) : 150<br>MHz ~ 2.15 GHz<br>RE : 30 MHz ~ 6 GHz                                                                    | BS-2 | N                |
| ABNT NBR<br>IEC/CISPR 32:2021      | Wired/wireless<br>communication<br>devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Emission requirements                                                                                                                                                                                            | CE(power ports) : 150<br>kHz ~ 30 MHz<br>CE(signal ports) : 150<br>MHz ~ 2.15 GHz<br>RE : 30 MHz ~ 6 GHz                                                                    | BS-1 | N                |
| ABNT NBR<br>IEC/CISPR 35<br>(2021) | Wired/wireless<br>communication<br>devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Immunity requirements                                                                                                                                                                                            | ESD : ±8 kV<br>RS : 80 MHz ~ 5 GHz, 3<br>V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 1 A/m<br>V-DIP : ≤ 75 A<br>SPL : 0.15 MHz ~ 1<br>GHz | BS-2 | N                |
| ABNT NBR<br>IEC/CISPR 35:2021      | Wired/wireless<br>communication<br>devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Immunity requirements                                                                                                                                                                                            | ESD : ±8 kV<br>RS : 80 MHz ~ 5 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 1 A/m<br>V-DIP : ≤ 75 A<br>SPL : 0.15 MHz ~ 1<br>GHz | BS-1 | N                |



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| Test method                       | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                                                                                                                                     | Test range                                                                                             | Site | Field<br>testing |
|-----------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------|------------------|
| ANSI C 63.4a:2017                 | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | American National<br>Standard for Methods of<br>Measurement of Radio-<br>Noise Emissions from<br>Low-Voltage Electrical<br>and Electronic<br>Equipment in the range<br>of 9 kHz to 40 GHz                                                                                                                   | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 18 GHz                                                          | BS-2 | Y                |
| ANSI C 63.4a:2017                 | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | American National<br>Standard for Methods of<br>Measurement of Radio-<br>Noise Emissions from<br>Low-Voltage Electrical<br>and Electronic<br>Equipment in the range<br>of 9 kHz to 40 GHz                                                                                                                   | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 18 GHz                                                          | BS-1 | N                |
| AS CISPR<br>11:2017+AMD1:2<br>020 | Electrical<br>machinery for<br>industries,<br>Medical<br>devices                        | Industrial, scientific and<br>medical equipment<br>-Radio-frequency<br>disturbance<br>characteristics -Limits<br>and methods of<br>measurement                                                                                                                                                              | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz                                                           | BS-2 | N                |
| AS CISPR 15:2017                  | Lighting<br>devices                                                                     | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><Exception><br>4.2 Insertion loss<br>4.4.1 Table 3a -<br>Radiated disturbance<br>limits in the frequency<br>range 9 kHz to 30 MHz<br>(loop diameter : 3 m<br>and 4 m) | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 300 MHz<br>MFE : 9 kHz ~ 30 MHz                                    | BS-2 | N                |
| AS/NZS CISPR<br>13:2012           | Wired/wireless<br>communication<br>devices                                              | Sound and television<br>broadcast receivers and<br>associated equipment -<br>Radio disturbance<br>characteristics - Limits<br>and methods of<br>measurement                                                                                                                                                 | CE : 150 kHz ~ 2.15<br>GHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 30 MHz ~ 1 GHz<br>RP : 0.9 GHz ~ 18 GHz | BS-2 | N                |
| AS/NZS CISPR 14-<br>1:2021        | Electrical<br>machinery for<br>households                                               | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus - Part 1 :<br>Emission                                                                                                                                                           | CE : 148.5 kHz ~ 30<br>MHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 30 MHz ~ 1 GHz                          | BS-2 | N                |

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| Test method                                     | Materials/<br>Products                                           | Standard<br>designation                                                                                                                                                                                                               | Test range                                                           | Site | Field<br>testing |
|-------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------|------------------|
| AS/NZS CISPR<br>32:2015+AMD1:2<br>020           | Wired/wireless<br>communication<br>devices                       | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Emission requirements                                                                                                                                                | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                         | BS-2 | N                |
| ASTM D4935-18                                   | Electrical<br>materials and<br>components                        | Standard Test Method<br>for Measuring the<br>Electromagnetic<br>Shielding Effectiveness<br>of Planar Materials                                                                                                                        | Frequency : Max. 1.5<br>GHz                                          | BS-2 | N                |
| ASTM D4935-18                                   | Electrical<br>materials and<br>components                        | Standard Test Method<br>for Measuring the<br>Electromagnetic<br>Shielding Effectiveness<br>of Planar Materials                                                                                                                        | Frequency range : 30<br>MHz ~ 1.5 GHz                                | BS-1 | N                |
| CISPR<br>11:2015+AMD1:2<br>016+AMD2:2019        | Electrical<br>machinery for<br>industries,<br>Medical<br>devices | Industrial, scientific and<br>medical equipment -<br>Radio-frequency<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement<br><Exception><br>6.3.2.3 Table 10<br>radiation disturbance<br>limits(distance 30 m) | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz                         | BS-2 | N                |
| CISPR<br>11:2015+AMD1:2<br>016+AMD2:2019        | Electrical<br>machinery for<br>industries,<br>Medical<br>devices | Industrial, scientific and<br>medical equipment -<br>Radio-frequency<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement                                                                                      | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>(Exclusion : 30 m)   | BS-6 | N                |
| CISPR<br>11:2015+AMD1:2<br>016+AMD2:2019<br>CSV | Electrical<br>machinery for<br>industries,<br>Medical<br>devices | Industrial, scientific and<br>medical equipment -<br>Radio-frequency<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement<br><exception><br>6.3.2.3 Table 10<br>radiation disturbance<br>limits(distance 30 m) | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz | BS-1 | N                |

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| Test method             | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test range                                                                                                                 | Site | Field<br>testing |
|-------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------|------------------|
| CISPR 12<br>Ed.6.1:2009 | Wired/wireless<br>communication devices   | Vehicles, boats and<br>internal combustion<br>engine - Radio<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement for the<br>protection of off-board<br>receivers<br>(Exception) 5.2.1<br>Outdoor test site (OTS)<br>requirements                                                                                                                                                                                                                                                   | 30 MHz ~ 1 GHz                                                                                                             | BS-5 | N                |
| CISPR 13:2015           | Wired/wireless<br>communication devices   | Sound and television<br>broadcast receivers and<br>associated equipment -<br>Radio disturbance<br>characteristics - Limits<br>and methods of<br>measurement<br>5.3 Disturbance voltage<br>at the mains terminals in<br>the frequency range 150<br>kHz to 30 MHz<br>5.6 Measurement of<br>disturbance power of<br>associated equipment<br>(video recorders<br>excluded) in the<br>frequency range 30<br>MHz to 1 GHz<br>5.7 Measurement of<br>radiation in the<br>frequency range 30<br>MHz to 1 GHz at 3 m | CE : 0.15 MHz ~ 2.15<br>GHz<br>DP : 30 MHz ~ 1 GHz<br>RE : 30 MHz ~ 1 GHz<br>RP : 0.9 GHz ~ 18 GHz                         | BS-2 | N                |
| CISPR 14-1:2020         | Electrical<br>machinery for<br>households | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus<br>- Part 1: Emission                                                                                                                                                                                                                                                                                                                                                           | CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 9 kHz ~ 6 GHz | BS-1 | N                |
| CISPR 14-1:2020         | Electrical<br>machinery for<br>households | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus - Part 1 :<br>Emission                                                                                                                                                                                                                                                                                                                                                          | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 6 GHz<br>DCE : 150 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 300<br>MHz | BS-2 | N                |

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| Test method     | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                     | Test range                                                                                                                                                         | Site | Field<br>testing |
|-----------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| CISPR 14-2:2020 | Electrical<br>machinery for<br>households | Electromagnetic<br>Compatibility -<br>Requirements for<br>Household Appliances<br>Electric Tools and Similar<br>Apparatus<br>- Part 2: Immunity -<br>Product Family Standard                                                                                                                                | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 230<br>MHz, 3 V<br>V-DIP : 16 A per phase<br>or less | BS-1 | N                |
| CISPR 14-2:2020 | Electrical<br>machinery for<br>households | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus - Part 2 :<br>Immunity - Product<br>family standard                                                                                                                              | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 230<br>MHz, 3 V<br>V-DIP : $\leq 75$ A               | BS-2 | N                |
| CISPR 15:2018   | Lighting<br>devices                       | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><exception><br>4.5.2 Table 8 - Radiated<br>disturbance limits in the<br>frequency range 9 kHz<br>to 30 MHz (loop<br>diameter : 3 m and 4 m)                           | RE : 9 kHz ~ 1 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz                                                                                                  | BS-1 | N                |
| CISPR 15:2018   | Lighting<br>devices                       | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><Exception><br>4.5.2 Table 8 - Radiated<br>disturbance limits in the<br>frequency range 9 kHz<br>to 30 MHz (loop<br>diameter : 3 m and 4 m)                           | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 1 GHz<br>MFE : 9 kHz ~ 30 MHz                                                                                                  | BS-2 | N                |
| CISPR 15:2018   | Lighting<br>devices                       | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><Exception><br>4.2 Insertion loss<br>4.4.1 Table 3a -<br>Radiated disturbance<br>limits in the frequency<br>range 9 kHz to 30 MHz<br>(loop diameter : 3 m<br>and 4 m) | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 1 GHz<br>MFE : 9 kHz ~ 30 MHz                                                                                                  | BS-6 | N                |

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| Test method             | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                             | Test range                                                                                                                                                                 | Site | Field<br>testing |
|-------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| CISPR 22:2008           | Wired/wireless<br>communication<br>devices | Information technology<br>equipment - Radio<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement                                                                                                                                                             | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                               | BS-2 | N                |
| CISPR 24:2015           | Wired/wireless<br>communication<br>devices | Information technology<br>equipment - Immunity<br>characteristics - Limits<br>and methods of<br>measurement                                                                                                                                                                         | ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±4 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 1 A/m<br>V-DIP : ≤75 A<br>SPL : 0.15 MHz ~ 1<br>GHz | BS-2 | N                |
| CISPR 25<br>Ed.4.0:2016 | Wired/wireless<br>communication<br>devices | Vehicles, boats and<br>internal combustion<br>engines - Radio<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement for the<br>protection of on-board<br>receivers<br><Exception><br>6 Measurement of<br>components and<br>modules                            | 0.15 MHz ~ 2.5 GHz                                                                                                                                                         | BS-5 | N                |
| CISPR 25<br>Ed5.0:2021  | Automobile<br>parts                        | Vehicles, boats and<br>internal combustion<br>engines - Radio<br>disturbance<br>characteristics - Limit<br>and methods of<br>measurement for the<br>protection of on-board<br>receivers<br><Exception><br>6.6 Radiated emissions<br>from<br>components/modules -<br>TEM cell method | CE Voltage Method :<br>0.15 MHz ~ 108 MHz<br>CE Current Method :<br>0.15 MHz ~ 245 MHz<br>RE(ALSE) : 0.15 MHz ~<br>5 925 GHz                                               | BS-6 | N                |

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| Test method   | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                               | Test range                                                                           | Site | Field<br>testing |
|---------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|------------------|
| CISPR 25:2016 | Wired/wireless<br>communication<br>devices | Vehicles, boats and<br>internal combustion<br>engines - Radio<br>disturbance<br>characteristics - Limit<br>and methods of<br>measurement for the<br>protection of on-board<br>receivers<br><Exception><br>5 Measurement of<br>emissions received by an<br>antenna on the same<br>vehicle<br>6.6 Radiated emissions<br>from<br>components/modules -<br>TEM cell method<br>6.7 Radiated emissions<br>from<br>components/modules -<br>Strip line method  | CE-V : 150 kHz ~ 108<br>MHz<br>CE-S : 150 kHz ~ 245<br>MHz<br>RE : 150 kHz ~ 2.5 GHz | BS-2 | Y                |
| CISPR 25:2016 | Wired/wireless<br>communication<br>devices | Vehicles, boats and<br>internal combustion<br>engines - Radio<br>disturbance<br>characteristics - Limit<br>and methods of<br>measurement for the<br>protection of on-board<br>receivers<br><Exceptions><br>5 Measurement of<br>emissions received by an<br>antenna on the same<br>vehicle<br>6.6 Radiated emissions<br>from<br>components/modules -<br>TEM cell method<br>6.7 Radiated emissions<br>from<br>components/modules -<br>Strip line method | CE-V : 150 kHz ~ 108<br>MHz<br>CE-S : 150 kHz ~ 245<br>MHz<br>RE : 150 kHz ~ 2.5 GHz | BS-6 | N                |

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| Test method                        | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                              | Test range                                                                                                                                                                 | Site | Field<br>testing |
|------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| CISPR 25:2021                      | Wired/wireless<br>communication<br>devices | Vehicles, boats and<br>internal combustion<br>engines - Radio<br>disturbance<br>characteristics - Limit<br>and methods of<br>measurement for the<br>protection of on-board<br>receivers<br><Exception><br>5 Measurement of<br>emissions received by an<br>antenna on the same<br>vehicle<br>6.6 Radiated emissions<br>from<br>components/modules -<br>TEM cell method<br>6.7 Radiated emissions<br>from<br>components/modules -<br>Strip line method | CE-V : 150 kHz ~ 108<br>MHz<br>CE-S : 150 kHz ~ 245<br>MHz<br>RE : 150 kHz ~ 5.925<br>GHz                                                                                  | BS-2 | N                |
| CISPR 32:2012                      | Wired/wireless<br>communication<br>devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Emission requirements                                                                                                                                                                                                                                                                                                                                                               | CE(power ports) : 150<br>kHz ~ 30 MHz<br>CE(signal ports) : 150<br>MHz ~ 2.15 GHz<br>RE : 30 MHz ~ 6 GHz                                                                   | BS-1 | N                |
| CISPR<br>32:2015+AMD1:2<br>019     | Wired/wireless<br>communication<br>devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Emission requirements                                                                                                                                                                                                                                                                                                                                                               | CE(power ports) : 150<br>kHz ~ 30 MHz<br>CE(signal ports) : 150<br>MHz ~ 2.15 GHz<br>RE : 30 MHz ~ 6 GHz                                                                   | BS-2 | N                |
| CISPR<br>32:2015+AMD1:2<br>019     | Wired/wireless<br>communication<br>devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Emission requirements                                                                                                                                                                                                                                                                                                                                                               | CE(power ports) : 150<br>kHz ~ 30 MHz<br>CE(signal ports) : 150<br>MHz ~ 2.15 GHz<br>RE : 30 MHz ~ 6 GHz                                                                   | BS-6 | N                |
| CISPR<br>32:2015+AMD1:2<br>019 CSV | Wired/wireless<br>communication<br>devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Emission requirements                                                                                                                                                                                                                                                                                                                                                               | CE(power ports) : 150<br>kHz ~ 30 MHz<br>CE(signal ports) : 150<br>MHz ~ 2.15 GHz<br>RE : 30 MHz ~ 6 GHz                                                                   | BS-1 | N                |
| CISPR 35:2016                      | Wired/wireless<br>communication<br>devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Immunity requirements                                                                                                                                                                                                                                                                                                                                                               | ESD : ±8 kV<br>RS: 80 MHz ~ 5 GHz, 3<br>V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 1 A/m<br>V-DIP : ≤ 75 A<br>SPL : 0.15 MHz ~ 1<br>GHz | BS-2 | N                |



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| Test method                      | Materials/<br>Products                  | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test range                                                                                                                                                                                                                                                                                                          | Site | Field<br>testing |
|----------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| CISPR 35:2016                    | Wired/wireless<br>communication devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Immunity requirements                                                                                                                                                                                                                                                                                                                                                                     | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 5 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 1 A/m<br>V-DIP : $\leq 75$ A<br>SPL : 0.15 MHz ~ 1<br>GHz                                                                                                                     | BS-1 | N                |
| CISPR 35:2016                    | Wired/wireless<br>communication devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Immunity requirements                                                                                                                                                                                                                                                                                                                                                                     | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 4$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 1 A/m<br>V-DIP : $< 5$ %, 0.5<br>cycle<br>70 %, 25/30 cycles<br>(50/60) Hz<br>Voltage interruptions :<br>$< 5$ %, 250/300 cycles<br>(50/60) Hz<br>SPL : 0.15 MHz ~ 1<br>GHz | BS-6 | N                |
| DMFC 2-20-<br>30:2014            | Wired/wireless<br>communication devices | Electromagnetic waves<br>protection facility<br>designing standard<br><Exception><br>Long Pulse PCI test                                                                                                                                                                                                                                                                                                                                                   | Frequency range : 10<br>kHz ~ 1 GHz(SE), 100<br>kHz ~ 1 GHz(CWI)<br>(PCI) : Short pulse 5<br>kA, Intermediate pulse<br>250 A                                                                                                                                                                                        | BS-2 | Y                |
| ECE R-<br>10.04:2012+A2:2<br>013 | Wired/wireless<br>communication devices | Uniform provisions<br>concerning the approval<br>of vehicles with regard<br>to electromagnetic<br>compatibility<br><Exception><br>Annex 4 : Method of<br>Measurement of<br>Radiated Broadband<br>Electromagnetic<br>Emissions from Vehicles<br>Annex 5 : Method of<br>Measurement of<br>Radiated Narrowband<br>Electromagnetic<br>Emissions from Vehicles<br>Annex 6 : Method of<br>Testing for Immunity of<br>Vehicles to<br>Electromagnetic<br>Radiation | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>BCI : 20 MHz ~ 400<br>MHz, 60 mA<br>RI : 80 MHz ~ 2 GHz,<br>30 V/m<br>TI : -450 V ~ 150 V<br>TE : 1 000 ns ~ 1 000<br>ms<br>EFT : $\pm 2$ KV<br>Surge : $\pm 2$ KV<br>H/F : $\leq 64$ A                                                                             | BS-2 | N                |

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| Test method      | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                   | Test range                                                                                                                                                                                                                                                                                   | Site | Field<br>testing |
|------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ECE R-10.05:2014 | Wired/wireless<br>communication<br>devices | Uniform provisions<br>concerning the approval<br>of vehicles with regard<br>to electromagnetic<br>compatibility<br>Annex 4 : Method of<br>measuring broadband<br>electromagnetic<br>disturbances generated<br>by vehicles<br>Annex 5 : Method of<br>measuring narrowband<br>electromagnetic<br>disturbances generated<br>by vehicles<br>Annex 6 : Method of<br>testing vehicle immunity<br>to electromagnetic<br>radiation                | RE : 30 MHz ~ 1 GHz<br>RI : 80 MHz ~ 2 GHz,<br>30 V/m                                                                                                                                                                                                                                        | BS-5 | N                |
| ECE R-10.05:2014 | Wired/wireless<br>communication<br>devices | Uniform provisions<br>concerning the approval<br>of vehicles with regard<br>to electromagnetic<br>compatibility<br><Exception><br>Annex 4 : Method of<br>measuring broadband<br>electromagnetic<br>disturbances generated<br>by vehicles<br>Annex 5 : Method of<br>measuring narrowband<br>electromagnetic<br>disturbances generated<br>by vehicles<br>Annex 6 : Method of<br>testing vehicle immunity<br>to electromagnetic<br>radiation | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>BCI : 20 MHz ~ 400<br>MHz, 60 mA<br>RI : 80 MHz ~ 2 GHz,<br>30 V/m<br>TI : -450 V ~ 150 V<br>TE : 1 000 ns ~ 1 000<br>ms<br>EFT : ±2 kV<br>Surge : ±2 kV<br>(2-40) Harmonic<br>Flicker : Single phase<br>≤16 A<br>3-phase per phase ≤75<br>A | BS-6 | N                |

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| Test method              | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                   | Test range                                                                                                                                                                                                              | Site | Field<br>testing |
|--------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ECE R-10.05:2014         | Wired/wireless<br>communication<br>devices | Uniform provisions<br>concerning the approval<br>of vehicles with regard<br>to electromagnetic<br>compatibility<br><Exception><br>Annex 4 : Method of<br>measuring broadband<br>electromagnetic<br>disturbances generated<br>by vehicles<br>Annex 5 : Method of<br>measuring narrowband<br>electromagnetic<br>disturbances generated<br>by vehicles<br>Annex 6 : Method of<br>testing vehicle immunity<br>to electromagnetic<br>radiation | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>BCI : 20 MHz ~ 400<br>MHz, 60 mA<br>RI : 80 MHz ~ 2 GHz,<br>30 V/m<br>TI : -450 V ~ 150 V<br>TE : 1 000 ns ~ 1 000<br>ms<br>EFT : ±2 kV<br>Surge : ±2 kV<br>H/F : ≤64 A | BS-2 | N                |
| ECE R-116:2006+A4:2013   | Wired/wireless<br>communication<br>devices | Uniform provisions<br>concerning the<br>protection of motor<br>vehicles against<br>unauthorized use                                                                                                                                                                                                                                                                                                                                       | RE : 30 MHz ~ 1 GHz<br>BCI : 20 MHz ~ 400<br>MHz, 60 mA<br>RI : 80 MHz ~ 2 GHz,<br>30 V/m<br>TI : -450 V ~ 150 V<br>ESD : ±15 kV                                                                                        | BS-2 | N                |
| ECE R-97.01:2007+A3:2013 | Wired/wireless<br>communication<br>devices | Uniform provisions<br>concerning the approval<br>for vehicle alarm<br>systems (VAS) and of<br>motor vehicles with<br>regard to their alarm<br>systems (AS)                                                                                                                                                                                                                                                                                | RE : 30 MHz ~ 1 GHz<br>BCI : 20 MHz ~ 400<br>MHz, 60 mA<br>RI : 80 MHz ~ 2 GHz,<br>30 V/m<br>TI : -450 V ~ 150 V<br>ESD : ±15 kV                                                                                        | BS-2 | N                |

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| Test method                    | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Test range                                                                                                                                                                                                            | Site | Field<br>testing |
|--------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ECSS-E-ST-20-07C<br>Rev.1:2012 | Wired/wireless<br>communication devices   | Space engineering -<br>Electromagnetic<br>compatibility<br>5.4.2 CE, power leads,<br>differential mode, 30 Hz<br>to 100 kHz<br>5.4.3 CE, power and<br>signal leads, 100 kHz to<br>100 MHz<br>5.4.4 CE, power leads,<br>inrush current<br>5.4.6 RE, electric field,<br>30 MHz to 18 GHz<br>5.4.7 CS, power leads,<br>30 Hz to 100 kHz<br>5.4.8 CS, bulk cable<br>injection, 50 kHz to 100<br>MHz<br>5.4.9 CS, power leads,<br>transients<br>5.4.10 RS, magnetic<br>field, 30 Hz to 100 kHz<br>5.4.11 RS, electric field,<br>30 MHz to 18 GHz<br>5.4.12 Susceptibility to<br>electrostatic discharges | 5.4.2 30 Hz to 100 kHz<br>5.4.3 100 kHz to 100<br>MHz<br>5.4.6 30 MHz to 18<br>GHz<br>5.4.7 30 Hz to 100 kHz<br>5.4.8 50 kHz to 100<br>MHz<br>5.4.10 30 Hz to 100<br>kHz<br>5.4.11 30 MHz to 18<br>GHz<br>5.4.12 30 A | BS-5 | N                |
| EN 12015:2014                  | Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility - Product<br>family standard for lifts,<br>escalators and moving<br>walks - Emission<br><Exception><br>Equipment more than<br>rated input current 63 A                                                                                                                                                                                                                                                                                                                                                                                                             | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A                                                                                                                                                           | BS-2 | N                |
| EN 12016:2013                  | Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility - Product<br>family standard for lifts,<br>escalators and moving<br>walks - Immunity<br><Exception><br>Equipment more than<br>rated input current 63 A                                                                                                                                                                                                                                                                                                                                                                                                             | ESD : ±15 kV<br>RS : 80 MHz ~ 2 GHz,<br>30 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>V-DIP : ≤75 A                                                                                     | BS-2 | N                |
| EN 12895:2015                  | Wired/wireless<br>communication devices   | Industrial trucks -<br>Electromagnetic<br>compatibility<br><Exception><br>5.2.4 Test of the driving<br>system<br>5.3.4 Test of driving at<br>zero speed<br>5.3.5 Test of the driving<br>system at Low rotation<br>speed                                                                                                                                                                                                                                                                                                                                                                             | RE : 30 MHz ~ 1 GHz<br>ESD : ±15 kV<br>RS : 27 MHz ~ 1 GHz,<br>10 V/m<br>MFS : 1 000 A/m                                                                                                                              | BS-2 | N                |

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| Test method                      | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Test range                                                                                                                                                                                                                | Site | Field<br>testing |
|----------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 13309:2010                    | Electrical<br>machinery for<br>industries  | Construction machinery<br>- Electromagnetic<br>compatibility of<br>machines with internal<br>power supply<br><Exception><br>4.2 Specifications<br>concerning broadband<br>electromagnetic<br>emission radiated from<br>construction machinery<br>4.3 Specifications<br>concerning narrowband<br>electromagnetic<br>emission radiated from<br>construction machinery<br>4.4 Specifications<br>concerning the<br>immunity of<br>construction machinery<br>to electromagnetic<br>radiation<br>4.7.2 Stripline Test -<br>TEM Cell Test | RE : 30 MHz ~ 1 GHz<br>RI : 20 MHz ~ 2 GHz<br>BCI : 1 MHz ~ 400<br>MHz<br>ESD : ±25 kV<br>CTI : (-600 ~ 300) V<br>CTE : (-450 ~ 150) V                                                                                    | BS-2 | N                |
| EN 301 489-1<br>V.2.2.3(2019-11) | Wired/wireless<br>communication<br>devices | ElectroMagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 1: Common<br>technical requirements;<br>Harmonised Standard<br>for ElectroMagnetic<br>Compatibility                                                                                                                                                                                                                                                                                                                                | CE : 150 kHz ~ 30<br>MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : ≤ 75 A<br>H/F : ≤ 75 A<br>TI : -600 V ~ 300 V | BS-1 | N                |

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| Test method                      | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                            | Test range                                                                                                                                                                                                                                                                                                                                                                                                       | Site | Field<br>testing |
|----------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 301 489-1<br>V2.2.3 (2019-11) | Wired/wireless<br>communication<br>devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part1 : Common<br>technical requirements;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU and the<br>essential requirements<br>of article 6 of Directive<br>2014/30/EU | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>(2-40) Harmonic<br>Flicker : Single phase<br>≤16 A<br>3-phase per phase ≤75<br>A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 %, 0.5 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz<br>TI : -600 V ~ 300 V | BS-6 | N                |
| EN 301 489-13<br>V1.2.1:2002     | Wired/wireless<br>communication<br>devices | Part 13 : Specific<br>conditions for Citizens<br>Band (CB) radio and<br>ancillary equipment<br>(speech and non-<br>speech)                                                                                                                                                                                                         | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 30 A/m<br>V-DIP : (0 ~ 100) %<br>F/H : ≤16 A                                                                                                                                                                                                              | BS-2 | N                |
| EN 301 489-15<br>V1.2.1:2002     | Wired/wireless<br>communication<br>devices | Part 15 : Specific<br>conditions for<br>commercially for<br>available amateur radio<br>equipment                                                                                                                                                                                                                                   | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 30 A/m<br>V-DIP : (0 ~ 100) %<br>F/H : ≤16 A                                                                                                                                                                                                              | BS-2 | N                |

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| Test method                       | Materials/<br>Products                  | Standard<br>designation                                                                                                                                                                                                                                                                     | Test range                                                                                                                                                                                                                                                                                                                                                                                                       | Site | Field<br>testing |
|-----------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 301 489-17<br>V3.2.4 (2020-09) | Wired/wireless<br>communication devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 17 : Specific<br>conditions for<br>Broadband Data<br>Transmission Systems;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>(2-40) Harmonic<br>Flicker : Single phase<br>≤16 A<br>3-phase per phase ≤75<br>A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 %, 0.5 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz<br>TI : -600 V ~ 300 V | BS-6 | N                |
| EN 301 489-17<br>V3.2.4(2020-09)  | Wired/wireless<br>communication devices | ElectroMagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 17: Specific<br>conditions for<br>Broadband Data<br>Transmission Systems;<br>Harmonised Standard<br>for ElectroMagnetic<br>Compatibility                                                    | CE : 150 kHz ~ 30<br>MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : ≤ 75 A<br>H/F : ≤ 75 A<br>TI : -600 V ~ 300 V                                                                                                                                                                                        | BS-1 | N                |
| EN 301 489-<br>17:2017            | Wired/wireless<br>communication devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 17: Specific<br>conditions for<br>Broadband Data<br>Transmission Systems;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU  | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : ≤75 A<br>TI : -600 V ~ 300 V                                                                                                                                                                                            | BS-2 | N                |



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| Test method                  | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Test range                                                                                                                                                                                                                                       | Site | Field<br>testing |
|------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 301 489-18<br>V1.3.1:2002 | Wired/wireless<br>communication<br>devices | Part 18 : Specific<br>conditions for Terrestrial<br>Trunked Radio (TETRA)<br>equipment                                                                                                                                                                                                                                                                                                                                                                                                          | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 30 A/m<br>V-DIP : (0 ~ 100) %<br>F/H : $\leq 16$ A                         | BS-2 | N                |
| EN 301 489-<br>19:2017       | Wired/wireless<br>communication<br>devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 19: Specific<br>conditions for Receive<br>Only Mobile Earth<br>Stations (ROMES)<br>operating in the 1,5<br>GHz band providing<br>data communications<br>and GNSS receivers<br>operating in the RNSS<br>band (ROGNSS)<br>providing positioning,<br>navigation, and timing<br>data; Harmonised<br>Standard covering the<br>essential requirements<br>of article 3.1(b) of<br>Directive 2014/53/EU | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : $\leq 75$ A<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 75$ A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| EN 301 489-<br>1:2017        | Wired/wireless<br>communication<br>devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 1: Common<br>technical requirements;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU and the<br>essential requirements<br>of article 6 of Directive<br>2014/30/EU                                                                                                                                                              | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : $\leq 75$ A<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 75$ A<br>TI : -600 V ~ 300 V | BS-2 | N                |

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| Test method                      | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                   | Test range                                                                                                                                                                                                                                                                                                                                                                                                       | Site | Field<br>testing |
|----------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 301 489-2<br>V2.1.1 (2019-04) | Wired/wireless<br>communication<br>devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part2 : Specific<br>conditions for radio<br>paging equipment;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>(2-40) Harmonic<br>Flicker : Single phase<br>≤16 A<br>3-phase per phase ≤75<br>A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 %, 0.5 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz<br>TI : -600 V ~ 300 V | BS-6 | N                |
| EN 301 489-<br>20:2017           | Wired/wireless<br>communication<br>devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 20: Specific<br>conditions for Mobile<br>Earth Stations<br>(MES)used in the Mobile<br>Satellite Services (MSS)                                                            | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : ≤75 A<br>TI : -600 V ~ 300 V                                                                                                                                                                                            | BS-2 | N                |
| EN 301 489-23<br>V1.5.1:2011     | Wired/wireless<br>communication<br>devices | Part 23 : Specific<br>conditions for IMT-2000<br>CDMA, Direct Spread<br>(UTRA and E-UTRA)<br>Base Station (BS) radio,<br>repeater and ancillary<br>equipment                                                                                                              | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 30 A/m<br>V-DIP : (0 ~ 100) %<br>F/H : ≤16 A                                                                                                                                                                                                              | BS-2 | N                |
| EN 301 489-24<br>V1.5.1:2010     | Wired/wireless<br>communication<br>devices | Part 24 : Specific<br>conditions for IMT-2000<br>CDMA Direct Spread<br>(UTRA and E-UTRA) for<br>Mobile and portable<br>(UE) radio and ancillary<br>equipment                                                                                                              | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 30 A/m<br>V-DIP : (0 ~ 100) %<br>F/H : ≤16 A                                                                                                                                                                                                              | BS-2 | N                |

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| Test method                  | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                   | Test range                                                                                                                                                                                                                                       | Site | Field<br>testing |
|------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 301 489-25<br>V2.3.2:2005 | Wired/wireless<br>communication<br>devices | Part 25 : Specific<br>conditions for CDMA 1x<br>spread spectrum Mobile<br>Stations and ancillary<br>equipment                                                                                                                                                                                                                                                                                             | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 30 A/m<br>V-DIP : (0 ~ 100) %<br>F/H : $\leq 16$ A                         | BS-2 | N                |
| EN 301 489-26<br>V2.3.2:2005 | Wired/wireless<br>communication<br>devices | Part 26 : Specific<br>conditions for CDMA 1x<br>spread spectrum Base<br>Stations, repeaters and<br>ancillary equipment                                                                                                                                                                                                                                                                                    | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 30 A/m<br>V-DIP : (0 ~ 100) %<br>F/H : $\leq 16$ A                         | BS-2 | N                |
| EN 301 489-<br>27:2017       | Wired/wireless<br>communication<br>devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 27: Specific<br>conditions for Ultra Low<br>Power Active Medical<br>Implants (ULP-AMI) and<br>related peripheral<br>devices (ULP-AMI-P)<br>operating in the 402<br>MHz to 405 MHz bands;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : $\leq 75$ A<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 75$ A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| EN 301 489-<br>2:2017        | Wired/wireless<br>communication<br>devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 2: Specific<br>conditions for radio<br>paging equipment;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU                                                                                                                                 | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : $\leq 75$ A<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 75$ A<br>TI : -600 V ~ 300 V | BS-2 | N                |

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| Test method                      | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                      | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                  | Site | Field<br>testing |
|----------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 301 489-3<br>V2.1.1 (2019-03) | Wired/wireless<br>communication<br>devices | Electromagnetic<br>Compatibility (EMC)<br>standard for<br>radio equipment and<br>services;<br>Part3 : Specific<br>conditions for Short -<br>Range Devices(SRD)<br>operating on<br>frequencies between 9<br>kHz and 246 GHz;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>(2-40) Harmonic<br>Flicker : Single phase<br>$\leq 16$ A<br>3-phase per phase $\leq 75$<br>A<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 %, 0.5 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz<br>TI : -600 V ~ 300 V | BS-6 | N                |
| EN 301 489-3<br>V2.1.1(2019-03)  | Wired/wireless<br>communication<br>devices | ElectroMagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 3: Specific<br>conditions for Short-<br>Range Devices (SRD)<br>operating on<br>frequencies between 9<br>kHz and 246 GHz;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU    | CE : 150 kHz ~ 30<br>MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 75$ A<br>H/F : $\leq 75$ A<br>TI : -600 V ~ 300 V                                                                                                                                                                                          | BS-1 | N                |
| EN 301 489-<br>33:2017           | Wired/wireless<br>communication<br>devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 33: Specific<br>conditions for Ultra-<br>WideBand (UWB)<br>devices; Harmonised<br>Standard covering the<br>essential requirements<br>of article 3.1(b) of<br>Directive 2014/53/EU                                                            | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : $\leq 75$ A<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 75$ A<br>TI : -600 V ~ 300 V                                                                                                                                                                                            | BS-2 | N                |

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| Test method                    | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                        | Test range                                                                                                                                                                                                      | Site | Field<br>testing |
|--------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 301 489-34:2017             | Wired/wireless communication devices | Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones; Harmonised Standard covering the essential requirements of article 6 of Directive 2014/30/EU                                    | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>V-DIP : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| EN 301 489-3:2017              | Wired/wireless communication devices | Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>V-DIP : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| EN 301 489-4:2017              | Wired/wireless communication devices | Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU                                    | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>V-DIP : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| EN 301 489-50 V2.2.1 (2019-04) | Wired/wireless communication devices | Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment                                     | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>V-DIP : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |

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| Test method                       | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                              | Test range                                                                                                                                                                                                                                       | Site | Field<br>testing |
|-----------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 301 489-51<br>V2.1.1 (2019-04) | Wired/wireless<br>communication<br>devices | ElectroMagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 51: Specific<br>conditions for<br>Automotive, Ground<br>based Vehicles and<br>Surveillance Radar<br>Devices using 24,05<br>GHz to 24,25 GHz,<br>24,05 GHz to 24,5 GHz,<br>76 GHz to 77 GHz and<br>77 GHz to 81 GHz;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU | ESD: $\pm 30$ kV<br>RS: Max. 10 V/m<br>(80 MHz ~ 6 GHz)<br>EFT/Burst: $\pm 4$ kV<br>Surge: $\pm 6$ kV<br>CS: Max. 10 V<br>(0.15 MHz ~ 230 MHz)<br>MFS: 30 A/m<br>V-DIP: $\leq 75$ A                                                              | BS-2 | N                |
| EN 301 489-<br>52:2017            | Wired/wireless<br>communication<br>devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 52: Specific<br>conditions for Cellular<br>Communication Mobile<br>and portable (UE) radio<br>and ancillary equipment;<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU                                                                                              | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : $\leq 75$ A<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>V-DIP : $\leq 75$ A                                           | BS-2 | N                |
| EN 301 489-<br>5:2017             | Wired/wireless<br>communication<br>devices | Electromagnetic<br>Compatibility (EMC)<br>standard for radio<br>equipment and services;<br>Part 5: Specific<br>conditions for Private<br>land Mobile Radio<br>(PMR) and ancillary<br>equipment (speech and<br>non-speech) and<br>Terrestrial Trunked<br>Radio (TETRA);<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.1(b) of Directive<br>2014/53/EU                                              | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : $\leq 75$ A<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 75$ A<br>TI : -600 V ~ 300 V | BS-2 | N                |



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| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                 | Test range                                                                                                                                                                                                      | Site | Field<br>testing |
|-------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 301 489-6:2017 | Wired/wireless communication devices | Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU                                                         | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>V-DIP : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| EN 301 489-7:2005 | Wired/wireless communication devices | Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 7 : Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)                                    | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 2.7 GHz, 3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>V-DIP : ≤75 A                      | BS-2 | N                |
| EN 301 489-9:2017 | Wired/wireless communication devices | Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>V-DIP : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| EN 50121-1:2015   | Electrical machinery for industries  | Railway applications - Electromagnetic compatibility - Part 1: General                                                                                                                                                                                                                                                                  | -                                                                                                                                                                                                               | BS-2 | N                |
| EN 50121-2:2015   | Electrical machinery for industries  | Railway applications - Electromagnetic compatibility - Part 2: Emission of whole railway system to the outside world                                                                                                                                                                                                                    | RE : 9 kHz ~ 1 GHz                                                                                                                                                                                              | BS-2 | N                |



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| Test method               | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                   | Test range                                                                                                                                                                                     | Site | Field<br>testing |
|---------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 50121-3-1:2015         | Electrical machinery for industries | Railway applications - Electromagnetic compatibility<br>- Part 3-1: Rolling stock<br>- Train and complete vehicle                                                                                         | RE : 9 kHz ~ 1 GHz                                                                                                                                                                             | BS-2 | N                |
| EN 50121-3-2:2016+A1:2019 | Electrical machinery for industries | Railway applications - Electromagnetic compatibility<br>- Part 3-2: Rolling stock<br>- Apparatus                                                                                                          | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz<br>CS : 150 kHz ~ 80 MHz<br>EFT : ±2 kV<br>SURGE : ±2 kV                                                    | BS-2 | N                |
| EN 50121-4:2016+A1:2019   | Electrical machinery for industries | Railway applications - Electromagnetic compatibility<br>- Part 4: Emission and immunity of the signalling and telecommunications apparatus                                                                | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz<br>CS : 150 kHz ~ 80 MHz<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>MFS : 300 A/m                                   | BS-2 | N                |
| EN 50121-5:2017+A1:2019   | Electrical machinery for industries | Railway applications - Electromagnetic compatibility<br>- Part 5: Emission and immunity of the fixed power supply installations and apparatus                                                             | CE : 150 kHz ~ 30 MHz<br>RE : 150 kHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz<br>CS : 150 kHz ~ 80 MHz<br>Oscillatory waves : 2.5 kV<br>EFT : ±4 kV<br>SURGE : ±4 kV<br>MFS : 300 A/m    | BS-2 | N                |
| EN 50130-4:2011+A1:2014   | Measuring instruments               | Alarm systems<br>- Part 4 :<br>Electromagnetic compatibility - Product family standard :<br>Immunity requirements for components of fire, intruder hold up, CCTV, access control and social alarm systems | ESD : ±8 kV<br>RS : 80 MHz ~ 2.7 GHz, 10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 100 MHz, 10 V<br>V-DIP : ≤75 A                                                                  | BS-2 | N                |
| EN 50130-4:2011+A1:2014   | Measuring instruments               | Alarm systems<br>- Part 4 :<br>Electromagnetic compatibility - Product family standard :<br>Immunity requirements for components of fire, intruder hold up, CCTV, access control and social alarm systems | ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 100 MHz, 10 V<br>V-DIP : 0 %, 250 cycle<br>40 %, 10 cycles<br>70 %, 25 cycles<br>80 %, 250 cycles | BS-6 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method   | Materials/<br>Products                      | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                             | Test range                                                                                                                                                                                                         | Site | Field<br>testing |
|---------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 50155:2017 | Electrical<br>machinery for<br>industries   | Railway applications -<br>Rolling stock - Electronic<br>equipment<br><Exception><br>13.4.4 Low temperature<br>start-up test<br>13.4.5 Dry heat test<br>13.4.6 Low temperature<br>storage test<br>13.4.7 Cyclic damp heat<br>test<br>13.4.9 Insulation test<br>13.4.10 Salt mist test<br>13.4.11 Vibration and<br>shock test<br>13.4.12 Enclosure<br>protection test (IP code)<br>13.4.13 Stress screening<br>test<br>13.4.14 Rapid<br>Temperature variation<br>test | CE: 150 kHz ~ 30 MHz<br>RE: 9 kHz ~ 18 GHz<br>ESD: ±30 kV<br>RS: 80 MHz ~ 6 GHz<br>EFT: ±4 kV<br>Surge: ±6 kV<br>CS: 150 kHz ~ 230<br>MHz<br>MFS: 300 A/m<br>V-DIP: ≤75 A                                          | BS-2 | N                |
| EN 50270:2015 | Measuring<br>instruments                    | Electromagnetic<br>compatibility - Electrical<br>apparatus for the<br>detection and<br>measurement of<br>combustible gases toxic<br>gases or oxygen                                                                                                                                                                                                                                                                                                                 | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤ 75 A<br>ESD : ±8 kV<br>RS : 80 MHz ~ 2.7<br>GHz, 10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : ≤75 A | BS-2 | N                |
| EN 50498:2010 | Wired/wireless<br>communicatio<br>n devices | Electromagnetic<br>compatibility (EMC) -<br>Product family standard<br>for after market<br>electronic equipment in<br>vehicles                                                                                                                                                                                                                                                                                                                                      | RE : 30 MHz ~ 1 GHz<br>TI : -450 V ~ 150 V<br>TE : 1 000 ns ~ 1 000<br>ms                                                                                                                                          | BS-6 | N                |
| EN 50498:2010 | Wired/wireless<br>communicatio<br>n devices | Electromagnetic<br>compatibility (EMC) -<br>Product family standard<br>for aftermarket<br>electronic equipment in<br>vehicles                                                                                                                                                                                                                                                                                                                                       | RE : 30 MHz ~ 1 GHz<br>TI : -450 V ~ 150 V<br>TE : 1 000 ns ~ 1 000<br>ms                                                                                                                                          | BS-2 | N                |

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| Test method                   | Materials/<br>Products                                           | Standard<br>designation                                                                                                                                                                                                               | Test range                                                           | Site | Field<br>testing |
|-------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------|------------------|
| EN<br>55011:2016+A11:<br>2020 | Electrical<br>machinery for<br>industries,<br>Medical<br>devices | Industrial, scientific and<br>medical equipment -<br>Radio-frequency<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement<br><exception><br>6.3.2.3 Table 10<br>radiation disturbance<br>limits(distance 30 m) | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz | BS-1 | N                |
| EN<br>55011:2016+A2:2<br>020  | Electrical<br>machinery for<br>industries,<br>Medical<br>devices | Industrial, scientific and<br>medical equipment -<br>Radio-frequency<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement                                                                                      | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>(Exclusion : 30 m)   | BS-6 | N                |
| EN<br>55011:2016+A2:2<br>021  | Electrical<br>machinery for<br>industries,<br>Medical<br>devices | Industrial, scientific and<br>medical equipment -<br>Radio-frequency<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement<br><Exception><br>6.3.2.3 Table 10<br>radiation disturbance<br>limits(distance 30 m) | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz                         | BS-2 | N                |
| EN<br>55011:2016+A2:2<br>021  | Electrical<br>machinery for<br>industries,<br>Medical<br>devices | Industrial, scientific and<br>medical equipment -<br>Radio-frequency<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement<br><exception><br>6.3.2.3 Table 10<br>radiation disturbance<br>limits(distance 30 m) | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz | BS-1 | N                |

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| Test method                  | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test range                                                                                                                     | Site | Field<br>testing |
|------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 55013:2016                | Wired/wireless<br>communication<br>devices | Sound and television<br>broadcast receivers and<br>associated equipment -<br>Radio disturbance<br>characteristics - Limits<br>and methods of<br>measurement<br>5.3 Disturbance voltage<br>at the mains terminals in<br>the frequency range 150<br>kHz to 30 MHz<br>5.6 Measurement of<br>the disturbance power<br>of associated equipment<br>(video recorders<br>excluded) in the<br>frequency range 30<br>MHz to 1 GHz<br>5.7 Measurement of<br>radiation in the<br>frequency range 30<br>MHz to 1 GHz at 3 m<br>distance | CE : 150 kHz ~ 2.15<br>GHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 30 MHz ~ 1 GHz<br>RP : 0.9 GHz ~ 18 GHz                         | BS-2 | N                |
| EN 55014-<br>1:2017+A11:2020 | Electrical<br>machinery for<br>households  | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances<br>electric tools and similar<br>apparatus<br>- Part 1: Emission                                                                                                                                                                                                                                                                                                                                                                            | CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 9 kHz ~ 6 GHz     | BS-1 | N                |
| EN 55014-<br>1:2017+A11:2020 | Electrical<br>machinery for<br>households  | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus<br>- Part 1 : Emission                                                                                                                                                                                                                                                                                                                                                                          | CE : 148.5 kHz ~ 30<br>MHz<br>DCE : 148.5 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 1 GHz<br>RE : 9 kHz ~ 1 GHz | BS-6 | N                |
| EN 55014-<br>1:2017+A11:2020 | Electrical<br>machinery for<br>households  | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus - Part 1 :<br>Emission                                                                                                                                                                                                                                                                                                                                                                          | CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 9 kHz ~ 6 GHz     | BS-2 | N                |
| EN 55014-1:2021              | Electrical<br>machinery for<br>households  | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances<br>electric tools and similar<br>apparatus<br>- Part 1: Emission                                                                                                                                                                                                                                                                                                                                                                            | CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 9 kHz ~ 6 GHz     | BS-1 | N                |

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| Test method                  | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                     | Test range                                                                                                                                                                                                                      | Site | Field<br>testing |
|------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 55014-2:2015              | Electrical<br>machinery for<br>households | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances<br>electric tools and similar<br>apparatus<br>- Part 2: Immunity -<br>Product family standard                                                                                                                                | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 230<br>MHz, 3 V/m<br>V-DIP : 16 A per phase<br>or less                                                            | BS-1 | N                |
| EN 55014-2:2015              | Electrical<br>machinery for<br>households | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus<br>- Part 2 : Immunity -<br>Product family standard                                                                                                                              | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 230<br>MHz, 3 V<br>V-DIP : 0 %, 0.5 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz | BS-6 | N                |
| EN 55014-2:2021              | Electrical<br>machinery for<br>households | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances<br>electric tools and similar<br>apparatus<br>- Part 2: Immunity -<br>Product family standard                                                                                                                                | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 230<br>MHz, 3 V/m<br>V-DIP : 16 A per phase<br>or less                                                            | BS-1 | N                |
| EN 55014-2:2021              | Electrical<br>machinery for<br>households | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus - Part 2 :<br>Immunity - Product<br>family standard                                                                                                                              | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 230<br>MHz, 3 V<br>V-DIP : $\leq 75$ A                                                                            | BS-2 | N                |
| EN<br>55015:2013+A1:2<br>015 | Lighting<br>devices                       | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><Exception><br>4.2 Insertion loss<br>4.4.1 Table 3a -<br>Radiated disturbance<br>limits in the frequency<br>range 9 kHz to 30 MHz<br>(loop diameter : 3 m<br>and 4 m) | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 1 GHz<br>MFE : 9 kHz ~ 30 MHz                                                                                                                                                               | BS-6 | N                |

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| Test method                   | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                              | Test range                                                                                                                                                                 | Site | Field<br>testing |
|-------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN<br>55015:2019+A11:<br>2020 | Lighting<br>devices                        | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><Exception><br>4.5.2 Table 8 - Radiated<br>disturbance limits in the<br>frequency range 9 kHz<br>to 30 MHz (loop<br>diameter : 3 m<br>and 4 m) | CE: 9 kHz ~ 30 MHz<br>RE: 9 kHz ~ 1 GHz<br>MFE: 9 kHz ~ 30 MHz                                                                                                             | BS-2 | N                |
| EN<br>55015:2019+A11:<br>2020 | Lighting<br>devices                        | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><exception><br>4.5.2 Table 8 - Radiated<br>disturbance limits in the<br>frequency range 9 kHz<br>to 30 MHz (loop<br>diameter : 3 m and 4 m)    | RE : 9 kHz ~ 1 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz                                                                                                          | BS-1 | N                |
| EN 55022:2010                 | Wired/wireless<br>communication<br>devices | Information technology<br>equipment - Radio<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement                                                                                                                                                              | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                               | BS-2 | N                |
| EN<br>55024:2010+A1:2<br>015  | Wired/wireless<br>communication<br>devices | Information technology<br>equipment - Immunity<br>characteristics - Limits<br>and methods of<br>measurement                                                                                                                                                                          | ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±4 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 1 A/m<br>V-DIP : ≤75 A<br>SPL : 0.15 MHz ~ 1<br>GHz | BS-2 | N                |
| EN 55032:2015                 | Wired/wireless<br>communication<br>devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Emission Requirements                                                                                                                                                                                               | CE(power ports) : 150<br>kHz ~ 30 MHz<br>CE(signal ports) : 150<br>MHz ~ 2.15 GHz<br>RE : 30 MHz ~ 6 GHz                                                                   | BS-1 | N                |
| EN<br>55032:2015+A11:<br>2020 | Wired/wireless<br>communication<br>devices | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Emission Requirements                                                                                                                                                                                               | CE(power ports) : 150<br>kHz ~ 30 MHz<br>CE(signal ports) : 150<br>MHz ~ 2.15 GHz<br>RE : 30 MHz ~ 6 GHz                                                                   | BS-1 | N                |



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| Test method            | Materials/<br>Products               | Standard<br>designation                                                                                                                     | Test range                                                                                                                                                                                                                                          | Site | Field<br>testing |
|------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 55032:2015+A1:2020  | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Emission Requirements                                                               | CE(power ports) : 150 kHz ~ 30 MHz<br>CE(signal ports) : 150 MHz ~ 2.15 GHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                                                  | BS-6 | N                |
| EN 55032:2020          | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Emission Requirements                                                               | CE(power ports) : 150 kHz ~ 30 MHz<br>CE(signal ports) : 150 MHz ~ 2.15 GHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                                                  | BS-2 | N                |
| EN 55035:2017+A11:2020 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Immunity Requirements                                                               | ESD : ±8 kV<br>RS: 80 MHz ~ 5 GHz, 3 V/m<br>EFT: ±1 kV<br>Surge: ±2 kV<br>CS: 150 kHz ~ 80 MHz, 3 V<br>MFS: 1 A/m<br>V-DIP: ≤75 A<br>SPL: 0.15 MHz ~ 1 GHz                                                                                          | BS-2 | N                |
| EN 55035:2017+A11:2020 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Immunity Requirements                                                               | ESD : ±8 kV<br>RS : 80 MHz ~ 5 GHz, 3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>MFS : 1 A/m<br>V-DIP : ≤ 75 A<br>SPL : 0.15 MHz ~ 1 GHz                                                                                  | BS-1 | N                |
| EN 55035:2017+A11:2020 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Immunity Requirements                                                               | ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : ±1 kV<br>Surge : ±4 kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 1 A/m<br>V-DIP : < 5 %, 0.5 cycle<br>70 %, 25/30 cycles (50/60) Hz<br>< 5 %, 250/300 cycles (50/60) Hz<br>SPL : 0.15 MHz ~ 1 GHz | BS-6 | N                |
| EN 60255-22-7:2003     | Measuring instruments                | Electrical relays - Part 22-7 : Electrical disturbance tests for measuring relays and protection equipment - Power frequency immunity tests | DM: 150 V CM: 300 V                                                                                                                                                                                                                                 | BS-2 | N                |



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| Test method               | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                             | Test range                                                                                                                                                                                                                                                                                                                                                                                                            | Site | Field<br>testing |
|---------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 60601-1-2:2015         | Medical<br>devices     | Medical electrical<br>equipment<br>- Part 1-2 : General<br>requirements for basic<br>safety and essential<br>performance - Collateral<br>standard :<br>Electromagnetic<br>compatibility -<br>Requirements and tests | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz,<br>28 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 6 V<br>MFS : 30 A/m<br>V-DIP : 0 %, 0.5 cycle<br>(At 0 °, 45 °, 90 °, 135<br>°, 180 °, 225 °, 270<br>° and 315 °)<br>0 %, 1 cycles (At 0 °)<br>70 %, 25/30 cycles<br>(50/60) Hz, (At 0 °)<br>Voltage interruptions :<br>0 %, 250/300 cycles<br>(50/60) Hz | BS-6 | N                |
| EN 60601-1-2:2015         | Medical<br>devices     | Medical electrical<br>equipment - Part 1-2 :<br>General requirements<br>for basic safety and<br>essential performance -<br>Collateral standard :<br>Electromagnetic<br>disturbances -<br>Requirements and tests     | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz,<br>28 V/m<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 6 V<br>MFS : 30 A/m<br>V-DIP : 16 A per phase<br>or less                                                                                                                                                                                                  | BS-1 | N                |
| EN 60601-1-2:2015+A1:2021 | Medical<br>devices     | Medical electrical<br>equipment - Part 1-2 :<br>General requirements<br>for basic safety and<br>essential performance -<br>Collateral standard :<br>Electromagnetic<br>disturbances -<br>Requirements and tests     | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz,<br>28 V/m<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 6 V<br>MFS : 30 A/m<br>V-DIP : 16 A per phase<br>or less<br>PMF : 30 kHz ~ 13.56<br>MHz (65 A/m)                                                                                                                                                          | BS-1 | N                |
| EN 60601-1-2:2015+A1:2021 | Medical<br>devices     | Medical electrical<br>equipment - Part 1-2 :<br>General requirements<br>for basic safety and<br>essential performance -<br>Collateral standard :<br>Electromagnetic<br>disturbances -<br>Requirements and tests     | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz,<br>28 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 6 V<br>MFS : 30 A/m<br>V-DIP : ≤75 A                                                                                                                                                                                                                      | BS-2 | N                |

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| Test method            | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                                                                                                          | Test range                                                                                                                                                                                                                                  | Site | Field<br>testing |
|------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 60945:2002          | Electrical<br>machinery for<br>industries                                               | Maritime navigation and<br>radio communication<br>equipment and systems -<br>General requirements -<br>Methods of testing and<br>required test results<br>9 Electromagnetic<br>emission<br>10 Immunity to<br>electromagnetic<br>environment                                      | CE : 10 kHz ~ 30 MHz<br>RE : 150 kHz ~ 2 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 1$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>V-DIP : $\leq 75$ A                                       | BS-2 | N                |
| EN 60947-1:2014        | Measuring<br>instruments                                                                | Low-voltage switchgear<br>and control gear - Part<br>5-1 : Control circuit<br>devices and switching<br>elements -<br>electromechanical<br>control circuit devices<br>7.3 Electro-Magnetic<br>Compatibility                                                                       | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 6 GHz<br>MFE : 9 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A                    | BS-2 | N                |
| EN 60947-1:2021        | Measuring<br>instruments                                                                | Low-voltage switchgear<br>and controlgear- Part 1 :<br>General rules 8.3<br>Electromagnetic<br>compatibility (EMC)                                                                                                                                                               | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 18 GHz<br>MFE : 9 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A | BS-1 | N                |
| EN 61000-3-<br>11:2019 | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility (EMC)<br>- Part 3-11 : Limits -<br>Limitation of voltage<br>change, voltage<br>fluctuations and flicker<br>in public low-voltage<br>supply systems -<br>Equipment with rated<br>current $\leq 75$ A and<br>subject to conditional<br>connection | AC input current : Max.<br>75 A (per phase)                                                                                                                                                                                                 | BS-2 | N                |

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| Test method        | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                  | Test range                                                                                                                    | Site | Field<br>testing |
|--------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61000-3-11:2019 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-11 : Limits -<br>Limitation of voltage change, voltage fluctuations and flicker in public low-voltage supply systems -<br>Equipment with rated current $\leq 75$ A and subject to conditional connection | AC input current : 16 A ~ 75 A<br>220 V ~ 250 V (L-N)                                                                         | BS-6 | N                |
| EN 61000-3-11:2019 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 3-11: Limits -<br>Limitation of voltage changes voltage fluctuations and flicker in public Low-voltage supply systems -<br>Equipment With rated current $\leq 75$ A and subject to conditional connection   | 75 A or less<br>Pst $< 1.0$<br>Plt $< 0.65$<br>d(t) $< 3.3$ %<br>dc $< 3.3$ %<br>dMax. : a) $< 4$ % , b) $< 6$ % , c) $< 7$ % | BS-1 | N                |
| EN 61000-3-12:2011 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-12 : Limits -<br>Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current $> 16$ A and $\leq 75$ A per phase                                        | AC input current : Max. 75 A (per phase)                                                                                      | BS-2 | N                |
| EN 61000-3-12:2011 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-12 : Limits -<br>Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current $> 16$ A and $\leq 75$ A per phase                                        | AC input current : 16 A ~ 75 A<br>220 V ~ 240 V (Single phase)<br>380 V ~ 690 V (Three phase)                                 | BS-6 | N                |
| EN 61000-3-2:2014  | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 3-2: Limits - Limits for Harmonic Current Emissions(equipment input current $\leq 16$ A per phase)                                                                                                          | 16 A or less                                                                                                                  | BS-1 | N                |

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No. KT009

| Test method               | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                                         | Test range                                                                                                                    | Site | Field<br>testing |
|---------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61000-3-2:2019         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-2 : Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per Phase)                                                                                                                              | AC input current : $\leq 16$ A (Single phase)                                                                                 | BS-6 | N                |
| EN 61000-3-2:2019         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 3-2: Limits - Limits for Harmonic Current Emissions(equipment input current $\leq 16$ A per phase)                                                                                                                                 | 16 A or less                                                                                                                  | BS-1 | N                |
| EN 61000-3-2:2019+A1:2021 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-2 : Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per Phase)                                                                                                                              | AC input current : Max. 16 A (per phase)                                                                                      | BS-2 | N                |
| EN 61000-3-2:2019+A1:2021 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 3-2: Limits - Limits for Harmonic Current Emissions(equipment input current $\leq 16$ A per phase)                                                                                                                                 | 16 A or less                                                                                                                  | BS-1 | N                |
| EN 61000-3-3:2013         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 3-3: Limits - Limitation of voltage changes voltage fluctuations and flicker in public Low-voltage supply systems for equipment With rated current less than or equal to 16 A per phase and not subject to conditional connection) | 16 A or less<br>Pst $< 1.0$<br>Plt $< 0.65$<br>d(t) $< 3.3$ %<br>dc $< 3.3$ %<br>dMax. : a) $< 4$ % , b) $< 6$ % , c) $< 7$ % | BS-1 | N                |

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No. KT009

| Test method               | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                                            | Test range                                                                                               | Site | Field<br>testing |
|---------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61000-3-3:2013+A1:2019 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 3-3: Limits -<br>Limitation of voltage changes voltage fluctuations and flicker in public Low-voltage supply systems for equipment With rated current less than or equal to 16 A per phase and not subject to conditional connection) | 16 A or less<br>Pst <1.0<br>Plt <0.65<br>d(t) <3.3 %<br>dc <3.3 %<br>dMax. : a) <4 % , b) <6 % , c) <7 % | BS-1 | N                |
| EN 61000-3-3:2013+A2:2021 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 3-3: Limits -<br>Limitation of voltage changes voltage fluctuations and flicker in public Low-voltage supply systems for equipment With rated current less than or equal to 16 A per phase and not subject to conditional connection) | 16 A or less<br>Pst <1.0<br>Plt <0.65<br>d(t) <3.3 %<br>dc <3.3 %<br>dMax. : a) <4 % , b) <6 % , c) <7 % | BS-1 | N                |
| EN 61000-3-3:2019         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-3 : Limits -<br>Limitation of voltage change, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection                    | AC input current : Max.<br>16 A (per phase)                                                              | BS-2 | N                |
| EN 61000-3-3:2019         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-3 : Limits -<br>Limitation of voltage change, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection                    | AC input current : ≤16 A (Single phase)                                                                  | BS-6 | N                |

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| Test method                | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                    | Test range                                                                                                                                                        | Site | Field<br>testing |
|----------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61000-4-11:2004+A1:2017 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests                                          | 0 %, 0.5 cycle<br>0 %, 1 cycle<br>70 %, 25/30 cycles(50/60) Hz<br>40 %, 10/12 cycles(50/60) Hz<br>80 %, 250/300 cycles(50/60) Hz<br>0 %, 250/300 cycles(50/60) Hz | BS-6 | N                |
| EN 61000-4-11:2020         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests                                          | AC input current : Max. 16 A (per phase)                                                                                                                          | BS-2 | N                |
| EN 61000-4-11:2020         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC).<br>Testing and measurement techniques. Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase. | 16 A per phase or less<br>0 % during 1/2 cycle<br>0 % during 1 cycle<br>40 % during 10/12 cycle<br>70 % during 25/30 cycle<br>80 % during 250/300 cycle           | BS-1 | N                |
| EN 61000-4-12:2017         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-12 : Testing and measurement techniques -Ring wave immunity test                                                                                           | Voltage : $\pm 4$ kV                                                                                                                                              | BS-2 | N                |
| EN 61000-4-13:2002+A2:2016 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-13 : Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests         | Freq. : 16 Hz ~ 2.4 kHz<br>Voltage : $U_1 \times 12$ %                                                                                                            | BS-6 | N                |
| EN 61000-4-13:2016         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-13 : Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests         | Freq. : 16 Hz ~ 2.4 kHz<br>Voltage : $U_1 \times 12$ %                                                                                                            | BS-2 | N                |



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| Test method                | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                          | Test range                                                                      | Site | Field<br>testing |
|----------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------|------------------|
| EN 61000-4-14:1999+A2:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-14 : Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase                                        | Voltage : $\pm 12\%$ $U_n$                                                      | BS-2 | N                |
| EN 61000-4-14:1999+A2:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-14 : Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase                                        | Voltage : $\pm 12\%$ $U_n$                                                      | BS-6 | N                |
| EN 61000-4-16:2016         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-16 : Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz                                        | Maximum Voltage :<br>(Continuous field) 30 Vrms<br>(Short persistence) 300 Vrms | BS-2 | N                |
| EN 61000-4-19:2014         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-19 : Testing and measurement techniques - Test for immunity to conducted, differential mode disturbances and signalling in the frequency range 2 kHz to 150 kHz at a.c. power ports | LFCS: (2 to 150) kHz,<br>20 V                                                   | BS-2 | N                |
| EN 61000-4-27:2000+A1:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-27 : Testing and measurement techniques -Unbalance, immunity test for equipment with input current not exceeding 16 A per phase                                                  | AC input current : Max.<br>16 A (per phase)                                     | BS-2 | N                |



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| Test method                | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                             | Test range                               | Site | Field<br>testing |
|----------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------|------------------|
| EN 61000-4-28:2000+A2:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-28 : Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase | AC input current : Max. 16 A (per phase) | BS-2 | N                |
| EN 61000-4-29:2000         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-29 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests          | DC input Voltage : 600 V                 | BS-2 | N                |
| EN 61000-4-2:2009          | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test                                                                      | Voltage : $\pm 30$ kV                    | BS-2 | N                |
| EN 61000-4-2:2009          | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test                                                                      | Voltage : $\pm 15$ kV                    | BS-6 | N                |
| EN 61000-4-2:2009          | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test                                                                        | Max. $\pm 30$ kV, 150 pF /330 $\Omega$   | BS-1 | N                |
| EN 61000-4-39:2017         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-39 : Testing and measurement techniques - Radiated fields in close proximity - immunity test                                                        | 65 A/m, 300 V/m                          | BS-1 | N                |

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| Test method               | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                 | Test range                                                                  | Site | Field<br>testing |
|---------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------|------------------|
| EN 61000-4-3:2020         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test | Freq. : 80 MHz ~ 18 GHz<br>E/F : 30 V/m<br>Field Testing : Field Uniformity | BS-2 | Y                |
| EN 61000-4-3:2020         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test | Freq. : 80 MHz ~ 18 GHz<br>E/F : 30 V/m                                     | BS-6 | N                |
| EN 61000-4-3:2020         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 4-3: Testing and measurement techniques - Radiated radio-frequency electromagnetic field immunity test     | RS : 80 MHz ~ 6 GHz,<br>10 V/m                                              | BS-1 | N                |
| EN 61000-4-4:2012         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test                  | Voltage : $\pm 5.5$ kV                                                      | BS-2 | N                |
| EN 61000-4-4:2012         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test                  | Voltage : $\pm 4$ kV                                                        | BS-6 | N                |
| EN 61000-4-4:2012         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test                    | EFT : $\pm 4$ kV                                                            | BS-1 | N                |
| EN 61000-4-5:2014+A1:2017 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-5 : Testing and measurement techniques - Surge immunity test                                            | Surge : $\pm 7$ kV                                                          | BS-2 | N                |

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| Test method               | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                       | Test range                                                                              | Site | Field<br>testing |
|---------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------|------------------|
| EN 61000-4-5:2014+A1:2017 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-5 : Testing and measurement techniques - Surge immunity test                                                  | Surge : $\pm 4$ kV                                                                      | BS-6 | N                |
| EN 61000-4-5:2014+A1:2017 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 4-5: Testing and measurement techniques - Surge immunity test                                                    | SURGE : $\pm 7$ kV                                                                      | BS-1 | N                |
| EN 61000-4-6:2014         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-6 : Testing and measurement techniques - Immunity to conducted disturbance, induced by radio-frequency fields | Freq. : 150 kHz ~ 230 MHz<br>Voltage : 10 V                                             | BS-6 | N                |
| EN 61000-4-6:2014         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-6 : Testing and measurement techniques - Immunity to conducted disturbance, induced by radio-frequency fields | Freq. : 150 kHz ~ 230 MHz<br>Voltage : 30 V                                             | BS-2 | N                |
| EN 61000-4-6:2014         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances induced by radio- frequency fields  | Frequency range : 150 kHz ~ 80 MHz<br>Voltage : Max. 10 Vrms                            | BS-1 | N                |
| EN 61000-4-8:2010         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test                         | Maximum magnetic field (continuous field) 100 A/m<br>(Short persistence) 1 000 A/m      | BS-6 | N                |
| EN 61000-4-8:2010         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test                         | Maximum Magnetic field :<br>(Continuous field) 100 A/m<br>(Short persistence) 1 000 A/m | BS-2 | N                |

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| Test method       | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                        | Test range                                                                                                                                                  | Site | Field<br>testing |
|-------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61000-4-8:2010 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 4-8: Testing and measurement techniques - power frequency magnetic field immunity test            | M/F : 100 A/m                                                                                                                                               | BS-1 | N                |
| EN 61000-4-9:2016 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-9 : Testing and measurement techniques - Pulse magnetic field immunity test                    | Pulse MFS : 1 000 A/m                                                                                                                                       | BS-2 | N                |
| EN 61000-4-9:2016 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-9 : Testing and measurement techniques - Pulse magnetic field immunity test                    | Pulse MFS : 1 000 A/m                                                                                                                                       | BS-6 | N                |
| EN 61000-4-9:2016 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 4-9: Testing and measurement techniques - Pulse magnetic field immunity test                      | Output current range :<br>100 A/m ~ 1 000 A/m                                                                                                               | BS-1 | N                |
| EN 61000-6-1:2007 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 6-1: Generic standards - Immunity for residential commercial and light-industrial environments    | ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : 16 A per phase or less | BS-1 | N                |
| EN 61000-6-1:2019 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 6-1 : Generic standards - Immunity for residential, commercial and light-industrial environments | ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : ≤75 A                  | BS-2 | N                |

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| Test method       | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                        | Test range                                                                                                                                                                                                                                         | Site | Field<br>testing |
|-------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61000-6-1:2019 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 6-1 : Generic standards - Immunity for residential, commercial and light-industrial environments | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |
| EN 61000-6-1:2019 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 6-1: Generic standards - Immunity for residential commercial and light-industrial environments    | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : 16 A per phase or less                                                                            | BS-1 | N                |
| EN 61000-6-2:2005 | Electrical machinery for industries                                         | Electromagnetic compatibility(EMC)<br>- Part 6-2: Generic standards - Immunity for industrial environments                                     | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : 16 A per phase or less                                                                         | BS-1 | N                |
| EN 61000-6-2:2019 | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC)<br>- Part 6-2 : Generic standards - Immunity for industrial environments                                   | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 75$ A                                                                                    | BS-2 | N                |

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| Test method                       | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                 | Test range                                                                                                                                                                                                                                                 | Site | Field<br>testing |
|-----------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61000-6-2:2019                 | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC)<br>- Part 6-2 : Generic standards - Immunity for industrial environments                                            | ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : 0 %, 0.5 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |
| EN 61000-6-2:2019                 | Electrical machinery for industries                                         | Electromagnetic compatibility(EMC)<br>- Part 6-2: Generic standards - Immunity for industrial environments                                              | ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : 16 A per phase or less                                                                                             | BS-1 | N                |
| EN 61000-6-3:2007+A1:2011         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 6-3 : Generic standards - Emission standard for residential, commercial and light-industrial environments | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>(2-40) Harmonic<br>Flicker : Single phase ≤16 A<br>3-phase per phase ≤75 A<br>RE : Max. 6 GHz                                                                                                              | BS-6 | N                |
| EN 61000-6-3:2007+A1:2011+AC:2012 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 6-3: Generic standards - Emission standard for residential commercial and light - industrial environments  | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                                                                                                               | BS-1 | N                |
| EN 61000-6-3:2021                 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 6-3 : Generic standards - Emission standard for residential, commercial and light-industrial environments | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A<br>RE : Max. 18 GHz                                                                                                                                                                            | BS-2 | N                |
| EN 61000-6-3:2021                 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 6-3: Generic standards - Emission standard for residential commercial and light - industrial environments  | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                                                                                                               | BS-1 | N                |



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| Test method               | Materials/<br>Products              | Standard<br>designation                                                                                               | Test range                                                                                                                                                                                                             | Site | Field<br>testing |
|---------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61000-6-4:2007+A1:2011 | Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 6-4: Generic standards - Emission standard for industrial environments   | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                                                                           | BS-1 | N                |
| EN 61000-6-4:2019         | Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 6-4 : Generic standards - Emission standard for industrial environments | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                                                                           | BS-2 | N                |
| EN 61000-6-4:2019         | Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 6-4 : Generic standards - Emission standard for industrial environments | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                                                                           | BS-6 | N                |
| EN 61000-6-4:2019         | Electrical machinery for industries | Electromagnetic compatibility(EMC)<br>- Part 6-4: Generic standards - Emission standard for industrial environments   | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                                                                           | BS-1 | N                |
| EN 61204-3:2018           | Electrical machinery for industries | Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility(EMC)                                   | ESD: ±8 kV<br>RS: Max 10 V/m(80 MHz ~ 2.7 GHz)<br>EFT/Burst: Max 2 kV<br>Surge: Max 2 kV<br>CS: Max 10 V(0.15 MHz ~ 230 MHz)<br>MFS: 30 A/m<br>V-DIP: ≤75 A                                                            | BS-2 | N                |
| EN 61326-1:2013           | Measuring instruments               | Electrical equipment for measurement control and laboratory use - EMC requirements<br>- Part 1: General requirements  | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : ≤16 A | BS-1 | N                |



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| Test method     | Materials/<br>Products   | Standard<br>designation                                                                                                          | Test range                                                                                                                                                                                                                                                                                                                                                               | Site | Field<br>testing |
|-----------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61326-1:2013 | Measuring<br>instruments | Electrical equipment for<br>measurement, control<br>and laboratory use -<br>EMC requirements -<br>General requirements           | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : Max ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz | BS-6 | N                |
| EN 61326-1:2021 | Measuring<br>instruments | Electrical equipment for<br>measurement control<br>and laboratory use -<br>EMC requirements<br>- Part 1: General<br>requirements | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : ≤16 A                                                                                                                                          | BS-1 | N                |
| EN 61326-1:2021 | Measuring<br>instruments | Electrical equipment for<br>measurement, control<br>and laboratory use -<br>EMC requirements -<br>General requirements           | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : Max. ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>Max. 10 V/m<br>EFT : Max. ±2 kV<br>Surge : Max. ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, Max. 3 V<br>MFS : Max. 30 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz    | BS-2 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                       | Test range                                                                                                                                                                                                                                                                                                                                                        | Site | Field<br>testing |
|-------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61326-2-1:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1 : Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 3 A/m<br>V-DIP : $\leq 16$ A                                                                                                                                    | BS-2 | N                |
| EN 61326-2-1:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1 : Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A                                                                                                                       | BS-1 | N                |
| EN 61326-2-1:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1 : Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |

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No. KT009

| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                        | Test range                                                                                                                                                                                                                                  | Site | Field<br>testing |
|-------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61326-2-1:2021 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1 : Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications                  | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A | BS-1 | N                |
| EN 61326-2-2:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 : Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 3 A/m<br>V-DIP : $\leq 16$ A              | BS-2 | N                |
| EN 61326-2-2:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 : Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A | BS-1 | N                |

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| Test method           | Materials/<br>Products   | Standard<br>designation                                                                                                                                                                                                                                                                                                               | Test range                                                                                                                                                                                                                                                                                                                                                           | Site | Field<br>testing |
|-----------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61326-2-<br>2:2013 | Measuring<br>instruments | Electrical equipment for<br>measurement, control<br>and laboratory use -<br>EMC requirements - Part<br>2-2 : Particular<br>requirements - Test<br>configurations,<br>operational conditions<br>and performance criteria<br>for portable test,<br>measuring and<br>monitoring equipment<br>used in low-voltage<br>distribution systems | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz | BS-6 | N                |
| EN 61326-2-<br>2:2021 | Measuring<br>instruments | Electrical equipment for<br>measurement, control<br>and laboratory use -<br>EMC requirements<br>- Part 2-2 : Particular<br>requirements - Test<br>configurations,<br>operational conditions<br>and performance criteria<br>for portable test,<br>measuring and<br>monitoring equipment<br>used in low-voltage<br>distribution systems | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : ≤16 A                                                                                                                                      | BS-1 | N                |
| EN 61326-2-<br>3:2013 | Measuring<br>instruments | Electrical equipment for<br>measurement, control<br>and laboratory use -<br>EMC requirements<br>- Part 2-3 : Particular<br>requirements - Test<br>configurations,<br>operational conditions<br>and performance criteria<br>for transducers With<br>integrated or remote<br>signal conditioning                                        | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : ≤16 A                                                                                                                                      | BS-1 | N                |

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| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                             | Test range                                                                                                                                                                                                                                  | Site | Field<br>testing |
|-------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61326-2-3:2021 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3 : Particular requirements - Test configurations, operational conditions and performance criteria for transducers With integrated or remote signal conditioning                                                                       | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A | BS-1 | N                |
| EN 61326-2-4:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4 : Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 3 A/m<br>V-DIP : $\leq 16$ A              | BS-2 | N                |
| EN 61326-2-4:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4 : Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A | BS-1 | N                |

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| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                             | Test range                                                                                                                                                                                                                                                                                                                                                        | Site | Field<br>testing |
|-------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61326-2-4:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4 : Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |
| EN 61326-2-4:2021 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4 : Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A                                                                                                                       | BS-1 | N                |
| EN 61326-2-5:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 : Particular requirements - Test configurations, operational conditions and performance criteria for field devices with interfaces according to IEC 61784-1                                                                          | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A                                                                                                                       | BS-1 | N                |

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| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                    | Test range                                                                                                                                                                                                                                                                                                                                                        | Site | Field<br>testing |
|-------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61326-2-5:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 : Particular requirements - Test configurations, operational conditions and performance criteria for field devices with interfaces according to IEC 61784-1 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 3 A/m<br>V-DIP : $\leq 16$ A                                                                                                                                    | BS-2 | N                |
| EN 61326-2-5:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 : Particular requirements - Test configurations, operational conditions and performance criteria for field devices with interfaces according to IEC 61784-1 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |
| EN 61326-2-5:2021 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 : Particular requirements - Test configurations, operational conditions and performance criteria for field devices with interfaces according to IEC 61784-1 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A                                                                                                                       | BS-1 | N                |



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| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                               | Test range                                                                                                                                                                                                                                                                            | Site | Field<br>testing |
|-------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61326-2-6:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 : Particular requirements - In vitro diagnostic(IVD) medical equipment | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A                                           | BS-1 | N                |
| EN 61326-2-6:2013 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 : Particular requirements - In vitro diagnostic(IVD) medical equipment | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |
| EN 61326-2-6:2021 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 : Particular requirements - In vitro diagnostic(IVD) medical equipment | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A                                           | BS-1 | N                |
| EN 61547:2009     | Lighting devices       | Equipment for general lighting purposes. EMC immunity requirements                                                                                                    | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 3 A/m<br>V-DIP : $\leq 16$ A                                                        | BS-2 | N                |

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| Test method     | Materials/<br>Products                    | Standard<br>designation                                                                                       | Test range                                                                                                                                                                                                                                                | Site | Field<br>testing |
|-----------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 61547:2009   | Lighting<br>devices                       | Equipment for general<br>lighting purposes. EMC<br>immunity requirements                                      | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>70 %, 10 cycles | BS-6 | N                |
| EN 61547:2009   | Lighting<br>devices                       | Equipment for general<br>lighting purposes. EMC<br>immunity requirements                                      | ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 3 A/m<br>V-DIP : ≤16 A                                                                                                                               | BS-1 | N                |
| EN 62040-2:2018 | Electrical<br>machinery for<br>industries | Uninterruptible power<br>systems(UPS)<br>- Part 2 :<br>Electromagnetic<br>compatibility (EMC)<br>requirements | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : 16 A per phase<br>or less                                                          | BS-1 | N                |
| EN 62040-2:2018 | Electrical<br>machinery for<br>industries | Uninterruptible power<br>systems(UPS) - Part 2 :<br>Electromagnetic<br>compatibility(EMC)<br>requirements     | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : ≤16 A per<br>phase                                                                 | BS-2 | N                |
| EN 62040-2:2018 | Electrical<br>machinery for<br>industries | Uninterruptible power<br>systems(UPS) - Part 2 :<br>Electromagnetic<br>compatibility(EMC)<br>requirements     | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz,<br>10 V/m<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m                                                                           | BS-6 | N                |

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| Test method                | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                           | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Site | Field<br>testing |
|----------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN 62233:2008              | Electrical<br>machinery for<br>households | Measurement methods<br>for electromagnetic<br>fields of household<br>appliances and similar<br>apparatus with regard<br>to human exposure                                                                                         | Freq. : 1 Hz ~ 10 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                               | BS-2 | N                |
| EN 62233:2008              | Electrical<br>machinery for<br>households | Measurement methods<br>for electromagnetic<br>fields of household<br>appliances and similar<br>apparatus with regard<br>to human exposure                                                                                         | Freq. : 1 Hz ~ 10 GHz                                                                                                                                                                                                                                                                                                                                                                                                                                               | BS-6 | N                |
| EN IEC 61851-21-<br>2:2021 | Electrical<br>machinery for<br>industries | Electric vehicle<br>conductive charging<br>system - Part 21-2:<br>Electric vehicle<br>requirements for<br>conductive connection<br>to an AC/DC supply -<br>EMC requirements for<br>off board electric vehicle<br>charging systems | RE : 2 kHz ~ 6 GHz<br>CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>Harmonic : (2-40)<br>Flicker : Single phas<br>≤16 A<br>3-phase per phase ≤75<br>A<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>M/F : 30 A/m<br>V-DIP : 0 %, 1 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz<br>Transient voltage: 0~2<br>kV | BS-6 | N                |

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| Test method            | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Site | Field<br>testing |
|------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EN IEC 61851-21-2:2021 | Electrical<br>machinery for<br>industries | Electric vehicle<br>conductive charging<br>system - Part 21-2:<br>Electric vehicle<br>requirements for<br>conductive connection<br>to an AC/DC supply -<br>EMC requirements for<br>off board electric vehicle<br>charging systems                                                                                                                                                                                                                                                                                                              | RE : 2 kHz ~ 6 GHz<br>CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>Harmonic : (2-40)<br>Flicker : Single phas<br>≤16 A<br>3-phase per phase ≤75<br>A<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>M/F : 200 A/m<br>V-DIP : 0 %, 1 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz<br>Transient voltage: 0~2<br>kV | BS-1 | N                |
| EPRI Rev.1:1997        | Electrical<br>machinery for<br>industries | Guidelines for<br>electromagnetic<br>interference testing in<br>power plants :<br>7-2 Equipment<br>conducted emissions, 30<br>Hz to 50 kHz<br>7-3 Equipment<br>conducted emissions, 50<br>kHz to 400 MHz<br>7-4 Equipment radiated<br>magnetic field<br>emissions, 30 Hz to 100<br>kHz<br>7-5 Equipment radiated<br>electric field emissions,<br>10 kHz to 1 GHz<br>B-10 Continuous wave,<br>Radiated<br>B-11 Continuous wave,<br>conducted<br>B-12 Surge tests<br>B-14 Fast transient and<br>impulse tests<br>B-14 Electrostatic<br>Discharge | CE, CS : Max. 1 GHz<br>RE, RS : Max. 18 GHz<br>Electric field : Max. 50<br>V/m<br>Magnetic field : Max.<br>180 dBpT<br>Electrostatic Voltage :<br>Max. 30 kV<br>EFT Voltage : Max. 5.5<br>kV<br>Surge Voltage : Max.<br>6.6 kV                                                                                                                                                                                                                                       | BS-2 | N                |

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| Test method     | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test range                                                                                                                                                                                                                     | Site | Field<br>testing |
|-----------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| EPRI Rev.2:2000 | Electrical<br>machinery for<br>industries | Guidelines for<br>electromagnetic<br>interference testing in<br>power plants :<br>5-8 Low-frequency<br>conducted susceptibility<br>5-10 High-frequency<br>conducted susceptibility<br>5-12 Low-frequency<br>radiated susceptibility<br>5-14 High-frequency<br>radiated susceptibility<br>5-15 Surge<br>5-16 Electrically-Fast<br>Transient/Burst<br>5-17 Electrostatic<br>Discharge<br>5-18 Low-frequency<br>conducted emissions<br>5-20 High-frequency<br>conducted emissions<br>5-22 Low-frequency<br>radiated emissions<br>5-24 High-frequency<br>radiated emissions                                                                                    | CE, CS : Max. 1 GHz<br>RE, RS : Max. 18 GHz<br>Electric field : Max. 50<br>V/m<br>Magnetic field : Max.<br>180 dBpT<br>Electrostatic Voltage :<br>Max. 30 kV<br>EFT Voltage : Max. 5.5<br>kV<br>Surge Voltage : Max.<br>6.6 kV | BS-2 | N                |
| EPRI Rev.3:2004 | Electrical<br>machinery for<br>industries | Guidelines for<br>Electromagnetic<br>Interference Testing of<br>Power Plant Equipment<br>:<br>5-6 Low-frequency<br>conducted susceptibility<br>5-8 High-frequency<br>conducted susceptibility<br>5-10 Low-frequency<br>radiated magnetic field<br>susceptibility<br>5-12 High-frequency<br>radiated electric field<br>susceptibility<br>5-13 Surge<br>5-15 Electrically-Fast<br>Transient/Burst<br>5-17 Electrostatic<br>Discharge<br>5-19 Low-frequency<br>conducted emissions<br>5-21 High-frequency<br>conducted emissions<br>5-23 Low-frequency<br>radiated magnetic field<br>emissions<br>5-24 High-frequency<br>radiated electric field<br>emissions | CE, CS : Max. 1 GHz<br>RE, RS : Max. 18 GHz<br>Electric field : Max. 50<br>V/m<br>Magnetic field : Max.<br>180 dBpT<br>Electrostatic Voltage :<br>Max. 30 kV<br>EFT Voltage : Max. 5.5<br>kV<br>Surge Voltage : Max.<br>6.6 kV | BS-2 | N                |

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| Test method             | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                            | Test range                                                                                                                                                                                           | Site | Field<br>testing |
|-------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ETSI EN 300<br>386:2016 | Wired/wireless<br>communication<br>devices                                              | Telecommunication<br>network equipment;<br>ElectroMagnetic<br>Compatibility (EMC)<br>requirements;<br>Harmonised Standard<br>covering the essential<br>requirements of the<br>Directive 2014/30/EU | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : ≤16 A | BS-2 | N                |
| FCC part 15:2018        | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Radio Frequency Device<br>Subpart B -<br>Unintentional Radiators                                                                                                                                   | CE : 150 kHz ~ 30 MHz<br>RE : Max. 18 GHz                                                                                                                                                            | BS-6 | N                |
| FCC part 15:2021        | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Radio Frequency Device<br>Subpart B -<br>Unintentional Radiators                                                                                                                                   | CE : 150 kHz ~ 30 MHz<br>RE : Max. 18 GHz                                                                                                                                                            | BS-2 | N                |
| FCC part 15:2021        | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Radio Frequency Device<br>Subpart B -<br>Unintentional Radiators<br><Exception><br>15.115 TV interface<br>devices including cable<br>system terminal devices                                       | RE : 30 MHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                                                        | BS-1 | N                |
| FCC part 18:2018        | Electrical<br>machinery for<br>industries,<br>Medical<br>devices                        | Industrial, scientific and<br>medical device                                                                                                                                                       | CE : 150 kHz ~ 30 MHz<br>RE : Max. 18 GHz                                                                                                                                                            | BS-2 | N                |
| FCC part 18:2018        | Electrical<br>machinery for<br>industries,<br>Medical<br>devices                        | Industrial, scientific and<br>medical device                                                                                                                                                       | CE : 150 kHz ~ 30 MHz<br>RE : Max. 18 GHz                                                                                                                                                            | BS-6 | N                |

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| Test method  | Materials/<br>Products                  | Standard<br>designation                                                                                                                                                                                                                       | Test range                                                                                                                                                                                                                                                                    | Site | Field<br>testing |
|--------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| GMW3097:2015 | Wired/wireless<br>communication devices | General Specification for<br>Electrical/ Electronic<br>Components and<br>Subsystems,<br>Electromagnetic<br>Compatibility<br><Exception><br>3.4.3 Immunity,<br>Reverberation, Mode<br>Tuning                                                   | BCI : 1 MHz ~ 400<br>MHz, 106 mA<br>RI : 80 MHz ~ 2 GHz,<br>300 V/m<br>MI : DC ~ 1 MHz, 1<br>275 $\mu$ T<br>CE : 530 kHz ~ 1.71<br>MHz<br>RE : 530 KHz ~ 1.606<br>GHz<br>ME : 100 KHz ~ 150<br>kHz<br>TI : -200 V ~ 100 V<br>TE : 1 000 ns ~ 1 000<br>ms<br>ESD : $\pm$ 25 kV | BS-2 | N                |
| GMW3100:2003 | Wired/wireless<br>communication devices | General Specification for<br>Electrical/ Electronic<br>Components and<br>Subsystems,<br>Electromagnetic<br>Compatibility -<br>Verification                                                                                                    | -                                                                                                                                                                                                                                                                             | BS-2 | N                |
| GMW3172:2012 | Wired/wireless<br>communication devices | General Specification for<br>Electrical/Electronic<br>Component<br>Analytical/Development/<br>Validation (A/D/V)<br>Procedures for<br>Conformance to Vehicle<br>Environmental,<br>Reliability, Durability,<br>and Performance<br>Requirements | Freq. : 1 Hz ~ 4 kHz<br>Voltage : -13.5 V ~ 26<br>V                                                                                                                                                                                                                           | BS-2 | N                |



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| Test method         | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Test range                                                                                                                                                                                                                                                                                                                                                                                                            | Site | Field<br>testing |
|---------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| GSFC-STD-7000A:2013 | Wired/wireless communication devices | <p>GENERAL ENVIRONMENTAL VERIFICATION STANDARD (GEVS) For GSFC Flight Programs and Projects</p> <p>2.5.2.1.1 Conducted Emissions, Power Leads, Differential Mode</p> <p>2.5.2.1.2 Conducted Emissions, Common Mode, Power and Signal Lines</p> <p>2.5.2.1.3 Conducted Emissions, Time Domain, Transients</p> <p>2.5.2.1.4 Conducted Emissions, Antenna Terminal</p> <p>2.5.2.2.1 Conducted Susceptibility, Power Leads, 30 Hz to 150 kHz</p> <p>2.5.2.2.2 Conducted Susceptibility, Antenna Terminals</p> <p>2.5.2.2.3 Conducted Susceptibility, Transients, Power Leads</p> <p>2.5.2.2.4 Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 200 MHz</p> <p>2.5.2.2.5 Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation</p> <p>2.5.2.3.1 Radiated Emissions, Magnetic Field</p> <p>2.5.2.3.2 Radiated Emissions, Electric Field</p> <p>2.5.2.4.1 Radiated Susceptibility, Magnetic Field</p> <p>2.5.2.4.2 Radiated Susceptibility, Electric Field</p> | <p>2.5.2.1.1 30 Hz to 50 MHz</p> <p>2.5.2.1.2 30 Hz to 200 MHz</p> <p>2.5.2.1.4 10 kHz to 40 GHz</p> <p>2.5.2.2.1 30 Hz to 150 kHz</p> <p>2.5.2.2.2 30 Hz to 20 GHz</p> <p>2.5.2.2.3 200 V, 150 ns, 10 μs</p> <p>2.5.2.2.4 10 kHz to 200 MHz</p> <p>2.5.2.2.5 Impulse 5 A</p> <p>2.5.2.3.1 30 Hz to 100 kHz</p> <p>2.5.2.3.2 200 MHz to 18 GHz</p> <p>2.5.2.4.1 30 Hz to 100 kHz</p> <p>2.5.2.4.2 2 MHz to 18 GHz</p> | BS-5 | N                |
| IEC 60255-26:2013   | Measuring instruments                | MEASURING RELAYS AND PROTECTION EQUIPMENT - Part 26: Electromagnetic compatibility requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>RE : 30 MHz ~ 6 GHz</p> <p>CE : 150 kHz ~ 30 MHz</p> <p>ESD : ±8 kV</p> <p>RS : 80 MHz ~ 2.7 GHz</p> <p>EFT : ±4 kV</p> <p>Surge : ±4 kV</p> <p>CS : 150 kHz ~ 80 MHz</p> <p>Low CS : 0 kHz ~ 150 kHz</p> <p>MFS : 300 A/m</p> <p>V-DIP : ≤75 A</p> <p>DOW : ±2.5 kV</p>                                                                                                                                           | BS-2 | N                |

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| Test method                          | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                            | Test range                                                                                                                                                                                                                                                                                                                                                                                                | Site | Field<br>testing |
|--------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60533:2015                       | Electrical<br>machinery for<br>industries | Electrical and electronic<br>installations in ships -<br>Electromagnetic<br>compatibility (EMC) -<br>Ships with a metallic hull<br><Exception><br>Equipment and<br>installation group F :<br>non - electrical items +<br>equipment | RE : 150 kHz ~ 2 GHz<br>CE : 10 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 Vrms<br>Low CS : 50 Hz ~ 10<br>kHz<br>V-DIP : $\leq 75$ A                                                                                                                                                                     | BS-2 | N                |
| IEC 60601-1-<br>2:2014               | Medical<br>devices                        | Medical electrical<br>equipment<br>- Part 1-2 : General<br>requirements for basic<br>safety and essential<br>performance - Collateral<br>standard :<br>Electromagnetic<br>disturbances -<br>Requirements and tests                 | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : 16 A per phase<br>or less                                                                                                                                                                                          | BS-1 | N                |
| IEC 60601-1-<br>2:2014+A1:2020       | Medical<br>devices                        | Medical electrical<br>equipment - Part 1-2 :<br>General requirements<br>for basic safety and<br>essential performance -<br>Collateral standard :<br>Electromagnetic<br>disturbance -<br>Requirements and tests                     | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz,<br>28 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 6 V<br>MFS : 30 A/m<br>V-DIP : $\leq 75$ A                                                                                                                                                                                     | BS-2 | N                |
| IEC 60601-1-<br>2:2014+AMD1:20<br>20 | Medical<br>devices                        | Medical electrical<br>equipment - Part 1-2 :<br>General requirements<br>for basic safety and<br>essential performance -<br>Collateral standard :<br>Electromagnetic<br>disturbance -<br>Requirements and tests                     | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz,<br>28 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 6 V<br>MFS : 30 A/m<br>V-DIP : 0 %, 0.5 cycle<br>(At 0 °, 45 °, 90 °, 135<br>°, 180 °, 225 °, 270<br>° and 315 °)<br>0 %, 1 cycles (At 0 °)<br>70 %, 25/30 cycles<br>(50/60) Hz, (At 0 °)<br>0 %, 250/300 cycles<br>(50/60) Hz | BS-6 | N                |

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| Test method                      | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Test range                                                                                                                                                                                                                                         | Site | Field<br>testing |
|----------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60601-1-2:2014+AMD1:2020 CSV | Medical devices                                                             | Medical electrical equipment<br>- Part 1-2 : General requirements for basic safety and essential performance - Collateral standard :<br>Electromagnetic disturbances - Requirements and tests                                                                                                                                                                                                                                                                                    | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : 16 A per phase or less<br>PMF : 30 kHz ~ 13.56 MHz (65 A/m) | BS-1 | N                |
| IEC 60945:2002                   | Electrical machinery for industries                                         | Maritime navigation and radio communication equipment and systems<br>- General requirements - Methods of testing and required test results<br><Exception><br>7.1 Extreme power supply<br>8 Durability and resistance to environmental conditions<br>Methods of testing and required test results<br>11 Special purpose tests<br>- Methods of testing and required test results<br>12 Safety precautions - Methods of testing and required test results(all equipment categories) | CE : 150 kHz ~ 30 MHz<br>RE : 150 kHz ~ 2 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 1$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>V-DIP : $\leq 75$ A                                                   | BS-2 | N                |
| IEC 60947-1:2020                 | Electrical machinery for households,<br>Electrical machinery for industries | Low-voltage switchgear and control gear<br>- Part 1 : General rules                                                                                                                                                                                                                                                                                                                                                                                                              | RE : 9 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A            | BS-2 | N                |

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| Test method         | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                  | Test range                                                                                                                        | Site | Field<br>testing |
|---------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61000-3-11:2017 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-11: Limits -<br>Limitation of voltage changes voltage fluctuations and flicker in public Low-voltage supply systems -<br>Equipment With rated current $\leq 75$ A and subject to conditional connection  | 75 A or less<br>$P_{st} < 1.0$<br>$Plt < 0.65$<br>$d(t) < 3.3 \%$<br>$dc < 3.3 \%$<br>$d_{max} : a) < 4 \%, b) < 6 \%, c) < 7 \%$ | BS-1 | N                |
| IEC 61000-3-11:2017 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-11 : Limits -<br>Limitation of voltage change, voltage fluctuations and flicker in public low-voltage supply systems -<br>Equipment with rated current $\leq 75$ A and subject to conditional connection | AC input current : Max. 75 A (per phase)                                                                                          | BS-2 | N                |
| IEC 61000-3-11:2017 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-11 : Limits -<br>Limitation of voltage change, voltage fluctuations and flicker in public low-voltage supply systems -<br>Equipment with rated current $\leq 75$ A and subject to conditional connection | AC input current : 16 A ~ 75 A<br>220 V ~ 250 V (L-N)                                                                             | BS-6 | N                |
| IEC 61000-3-12:2011 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-12 : Limits -<br>Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current $> 16$ A and $\leq 75$ A per phase                                        | AC input current : Max. 75 A (per phase)                                                                                          | BS-2 | N                |
| IEC 61000-3-12:2011 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-12 : Limits -<br>Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current $> 16$ A and $\leq 75$ A per phase                                        | AC input current : 16 A ~ 75 A<br>220 V ~ 240 V (Single phase)<br>380 V ~ 690 V (Three phase)                                     | BS-6 | N                |

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| Test method                                | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                                          | Test range                                                                                                    | Site | Field<br>testing |
|--------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61000-3-2:2018                         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-2 : Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per Phase)                                                                                                                               | AC input current : Max. 16 A (per phase)                                                                      | BS-2 | N                |
| IEC 61000-3-2:2018+AMD1:2020               | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-2 : Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per Phase)                                                                                                                               | AC input current : $\leq 16$ A (Single phase)                                                                 | BS-6 | N                |
| IEC 61000-3-2:2018+AMD1:2020 CSV           | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)                                                                                                                                | 16 A or less<br>40th harmonic                                                                                 | BS-1 | N                |
| IEC 61000-3-3:2013+A1:2017+A2:2021         | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-3 : Limits - Limitation of voltage change, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection                | AC input current : Max. 16 A (per phase)                                                                      | BS-2 | N                |
| IEC 61000-3-3:2013+AMD1:2017+AMD2:2021 CSV | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic Compatibility (EMC)<br>- Part 3-3: Limits - Limitation of voltage changes voltage fluctuations and flicker in public Low-voltage supply systems for equipment With rated current less than or equal to 16 A per phase and not subject to conditional connection. | 16 A or less<br>Pst < 1.0<br>Plt < 0.65<br>d(t) < 500 ms<br>dc < 3.3 %<br>dmax : a) < 4 %, b) < 6 %, c) < 7 % | BS-1 | N                |

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| Test method         | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                              | Test range                                                                                                                                                                          | Site | Field<br>testing |
|---------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61000-3-3:2017  | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 3-3 : Limits -<br>Limitation of voltage change, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection | AC input current : $\leq 16$ A (Single phase)                                                                                                                                       | BS-6 | N                |
| IEC 61000-4-10:2016 | Wired/wireless communication devices                                        | Electromagnetic compatibility (EMC) -<br>Part 4-10 : Testing and measurement techniques - Damped oscillatory magnetic field immunity test                                                                                                                            | field strength (10 ~ 100) A/M                                                                                                                                                       | BS-2 | N                |
| IEC 61000-4-11:2004 | Wired/wireless communication devices                                        | Electromagnetic Compatibility (EMC):<br>Part 4-11: Test and Measurement Techniques — Voltage dips, short interruptions and voltage variations; immunity tests                                                                                                        | AC Input Current :<br>Max. 16 A (per phase)                                                                                                                                         | BS-2 | N                |
| IEC 61000-4-11:2020 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests                                                                                                    | AC input current : Max. 16 A (per phase)                                                                                                                                            | BS-2 | N                |
| IEC 61000-4-11:2020 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-11: Testing and measurement techniques - Voltage dips short interruptions and voltage variations immunity tests                                                                                                      | 16 A per phase or less<br>0 % during 1/2 cycle<br>0 % during 1 cycle<br>40 % during 10/12 cycle<br>70 % during 25/30 cycle<br>80 % during 250/300 cycle<br>0 % during 250/300 cycle | BS-1 | N                |



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| Test method                                    | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                             | Test range                                                                                                                                                        | Site | Field<br>testing |
|------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61000-4-11:2020                            | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests                                   | 0 %, 0.5 cycle<br>0 %, 1 cycle<br>70 %, 25/30 cycles(50/60) Hz<br>40 %, 10/12 cycles(50/60) Hz<br>80 %, 250/300 cycles(50/60) Hz<br>0 %, 250/300 cycles(50/60) Hz | BS-6 | N                |
| IEC 61000-4-12:2017                            | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-12 : Testing and measurement techniques - Ring wave immunity test                                                                                   | Voltage : $\pm 4$ kV                                                                                                                                              | BS-2 | N                |
| IEC 61000-4-13:2002+AMD1:2009<br>+AMD2:2015    | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-13 : Testing and measurement techniques - Harmonics and inter-harmonics including mains signalling at a.c. power port, low frequency immunity tests | Freq. : 16 Hz ~ 2.4 kHz<br>Voltage : $U_1 \times 12$ %                                                                                                            | BS-6 | N                |
| IEC 61000-4-13:2002+AMD1:2009+AMD2:2015<br>CSV | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic Compatibility (EMC)<br>- Part 4-13: Testing and Measurement Techniques - Harmonics and Inter harmonics Including Mains Signalling at A.C. power Port Low Frequency Immunity Tests   | 9th harmonic<br>Frequency range : 2 kHz/ 50 Hz, 2.4 kHz/ 60 Hz                                                                                                    | BS-1 | N                |
| IEC 61000-4-13:2015                            | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-13 : Testing and measurement techniques - Harmonics and inter-harmonics including mains signalling at a.c. power port, low frequency immunity tests | Freq. : 16 Hz ~ 2.4 kHz<br>Voltage : $U_1 \times 12$ %                                                                                                            | BS-2 | N                |



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No. KT009

| Test method                             | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                    | Test range                                                                      | Site | Field<br>testing |
|-----------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------|------------------|
| IEC 61000-4-14:1999+AMD1:2001+AMD2:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-14 : Testing and measurement techniques - Voltage fluctuations immunity test for equipment with input current not exceeding 16 A per phase | Voltage : $\pm 12\%$ $U_n$                                                      | BS-6 | N                |
| IEC 61000-4-14:1999+AMD1:2001+AMD2:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic Compatibility (EMC)<br>- Part 4-14: Testing and Measurement Techniques - Voltage Fluctuation Immunity Test                                                                 | Test level : $U(nom)$ ,<br>$U(nom)-10\%$ $U(nom)$ ,<br>$U(nom)+10\%$ $U(nom)$   | BS-1 | N                |
| IEC 61000-4-14:2009                     | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-14 : Testing and measurement techniques - Voltage fluctuations immunity test for equipment with input current not exceeding 16 A per phase | Voltage : $\pm 12\%$ $U_n$                                                      | BS-2 | N                |
| IEC 61000-4-16:2015                     | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-16 : Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz  | Maximum Voltage :<br>(Continuous field) 30 Vrms<br>(Short persistence) 300 Vrms | BS-2 | N                |
| IEC 61000-4-17:1999+AMD1:2001+AMD2:2008 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic Compatibility (EMC)<br>- Part 4-17: Testing and Measurement Techniques - Ripple on d.c. Input power Port Immunity Test                                                     | Output voltage range :<br>360 V or less                                         | BS-1 | N                |
| IEC 61000-4-17:2009                     | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-17 : Testing and measurement techniques - Ripple on d.c. input power port immunity test                                                    | DC input Voltage : 600 V                                                        | BS-2 | N                |

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| Test method         | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                             | Test range                                                 | Site | Field<br>testing |
|---------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------|------------------|
| IEC 61000-4-18:2019 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-18 : Testing and measurement techniques -Damped oscillatory wave immunity test                                                                                                      | Voltage(slow) : $\pm 2.5$ kV<br>Voltage(fast) : $\pm 4$ kV | BS-2 | N                |
| IEC 61000-4-19:2014 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) -<br>Part 4-19 : Testing and measurement techniques - Test for immunity to conducted, differential mode disturbances and signalling in the frequency range 2 kHz to 150 kHz at a.c. power ports | LFCS: (2 to 150) kHz,<br>20 V                              | BS-2 | N                |
| IEC 61000-4-27:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-27 : Testing and measurement techniques - Unbalance, immunity test for equipment with input current not exceeding 16 A per phase                                                    | AC input current : Max.<br>16 A (per phase)                | BS-2 | N                |
| IEC 61000-4-28:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) -<br>Part 4-28 : Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase                                 | AC input current : Max.<br>16 A (per phase)                | BS-2 | N                |
| IEC 61000-4-29:2000 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-29 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests                                          | DC input Voltage : 600 V                                   | BS-2 | N                |
| IEC 61000-4-2:2008  | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic Compatibility (EMC)<br>- Part 4-2: Testing and Measurement Techniques - Electrostatic Discharge Immunity Test                                                                                                       | Max. $\pm 30$ kV, 150 pF<br>/330 $\Omega$                  | BS-1 | N                |

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| Test method                   | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                     | Test range                                                                                                                                                  | Site | Field<br>testing |
|-------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61000-4-2:2008            | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-2 : Testing and measurement techniques -<br>Electrostatic discharge immunity test                                                                                           | Voltage : $\pm 30$ kV                                                                                                                                       | BS-2 | N                |
| IEC 61000-4-2:2008            | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-2 : Testing and measurement techniques -<br>Electrostatic discharge immunity test                                                                                           | Voltage : $\pm 15$ kV                                                                                                                                       | BS-6 | N                |
| IEC 61000-4-2:2008            | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC) -<br>Part 4-2: Testing and measurement techniques -<br>Electrostatic discharge immunity test                                                                                            | Max. $\pm 15$ kV                                                                                                                                            | BS-5 | N                |
| IEC 61000-4-34:2005+AMD1:2009 | Wired/wireless communication devices                                        | Electromagnetic compatibility (EMC) -<br>Part 4-34 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase | 0 %, 1 cycle<br>40 %, (10/12) cycles (50/60) Hz<br>70 %, (25/30) cycles (50/60) Hz<br>80 %, (250/300) cycles (50/60) Hz<br>0 %, (250/300) cycles (50/60) Hz | BS-2 | N                |
| IEC 61000-4-39:2017           | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-39 : Testing and measurement techniques - Radiated fields in close proximity -<br>immunity test                                                                             | 65 A/m, 300 V/m                                                                                                                                             | BS-1 | N                |
| IEC 61000-4-3:2020            | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-3 : Testing and measurement techniques -Radiated radio-frequency, electromagnetic field immunity test                                                                       | Freq. : 80 MHz ~ 18 GHz<br>E/F : 30 V/m<br>Field Testing : Field Uniformity                                                                                 | BS-2 | Y                |

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| Test method                  | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                | Test range                              | Site | Field<br>testing |
|------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------|------------------|
| IEC 61000-4-3:2020           | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test | RS : 80 MHz ~ 6 GHz,<br>10 V/m          | BS-1 | N                |
| IEC 61000-4-3:2020           | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-3 : Testing and measurement techniques - Radiated radio-frequency, electromagnetic field immunity test | Freq. : 80 MHz ~ 18 GHz<br>E/F : 30 V/m | BS-6 | N                |
| IEC 61000-4-4:2012           | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test                 | Voltage : $\pm 5.5$ kV                  | BS-2 | N                |
| IEC 61000-4-4:2012           | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-4: Testing and measurement techniques -Electrical fast transient/burst immunity test                   | EFT : $\pm 4$ kV                        | BS-1 | N                |
| IEC 61000-4-4:2012           | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test                 | Voltage : $\pm 4$ kV                    | BS-6 | N                |
| IEC 61000-4-5:2014+AMD1:2017 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic Compatibility (EMC)<br>- Part 4-5: Testing and Measurement Techniques - Surge Immunity Test                                            | SURGE : $\pm 6$ kV                      | BS-1 | N                |
| IEC 61000-4-5:2017           | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-5 : Testing and measurement techniques - Surge Immunity test                                           | Voltage : $\pm 7$ kV                    | BS-2 | N                |

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| Test method        | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                        | Test range                                                                              | Site | Field<br>testing |
|--------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------|------------------|
| IEC 61000-4-5:2017 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-5 : Testing and measurement techniques - Surge Immunity test                                                   | Surge : $\pm 4$ kV                                                                      | BS-6 | N                |
| IEC 61000-4-6:2013 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-6 : Testing and measurement techniques - Immunity to Conducted Disturbances, Induced by radio-frequency Fields | Freq. : 150 kHz ~ 230 MHz<br>Voltage : 30 V                                             | BS-2 | N                |
| IEC 61000-4-6:2013 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances induced by radio-frequency fields   | Frequency range : 150 kHz ~ 80 MHz<br>Voltage : Max. 10 Vrms                            | BS-1 | N                |
| IEC 61000-4-6:2013 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-6 : Testing and measurement techniques - Immunity to Conducted Disturbances, Induced by radio-frequency Fields | Freq. : 150 kHz ~ 230 MHz<br>Voltage : 10 V                                             | BS-6 | N                |
| IEC 61000-4-8:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic Compatibility (EMC)<br>- Part 4-8: Testing and Measurement Techniques - power Frequency Magnetic Field Immunity Test                           | M/F : 100 A/m                                                                           | BS-1 | N                |
| IEC 61000-4-8:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test                          | Maximum magnetic field :<br>(Continuous field) 100 A/m<br>(Short persistence) 1 000 A/m | BS-2 | N                |
| IEC 61000-4-8:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test                             | Maximum magnetic field<br>(continuous field) 100 A/m<br>(Short persistence) 1 000 A/m   | BS-6 | N                |

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| Test method        | Materials/<br>Products                                                   | Standard<br>designation                                                                                                                             | Test range                                                                                                                                                                                                                          | Site | Field<br>testing |
|--------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61000-4-9:2016 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic Compatibility (EMC) - Part 4-9: Testing and Measurement Techniques - Pulse Magnetic Field Immunity Test                             | Output current range 100 A/m ~ 1 000 A/m                                                                                                                                                                                            | BS-1 | N                |
| IEC 61000-4-9:2016 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-9 : Testing and measurement techniques - Pulse magnetic field immunity test                            | Pulse MFS : 1 000 A/m                                                                                                                                                                                                               | BS-2 | N                |
| IEC 61000-4-9:2016 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-9 : Testing and measurement techniques - Pulse magnetic field immunity test                            | Pulse MFS : 1 000 A/m                                                                                                                                                                                                               | BS-6 | N                |
| IEC 61000-6-1:2016 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments | ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : ≤75 A                                                                                             | BS-2 | N                |
| IEC 61000-6-1:2016 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic Compatibility (EMC) - Part 6-1: Generic Standards - Immunity for Residential, Commercial and Light-Industrial Environments          | ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>M/F : 3 A/m<br>V-DIP : 16 A per phase or less                                                                            | BS-1 | N                |
| IEC 61000-6-1:2016 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 6-1 : Generic standards - Immunity for residential, commercial and light-industrial environments         | ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |



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| Test method        | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                           | Test range                                                                                                                                                                                                                                                                            | Site | Field<br>testing |
|--------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61000-6-2:2016 | Electrical<br>machinery for<br>industries                                               | Electromagnetic<br>Compatibility (EMC)<br>- Part 6-2: Generic<br>Standards - Immunity<br>for Industrial<br>Environments                           | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>M/F : 30 A/m<br>V-DIP : 16 A per phase<br>or less                                                                                                   | BS-1 | N                |
| IEC 61000-6-2:2016 | Electrical<br>machinery for<br>industries                                               | Electromagnetic<br>compatibility (EMC)<br>- Part 6-2 : Generic<br>standards - Immunity for<br>industrial environments                             | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 75$ A                                                                                                                 | BS-2 | N                |
| IEC 61000-6-2:2016 | Electrical<br>machinery for<br>industries                                               | Electromagnetic<br>compatibility (EMC)<br>- Part 6-2 : Generic<br>standards - Immunity for<br>industrial environments                             | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : 0 %, 0.5 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz | BS-6 | N                |
| IEC 61000-6-3:2020 | Electrical<br>machinery for<br>households                                               | Electromagnetic<br>compatibility (EMC)<br>- Part 6-3: Generic<br>Standards - Emission<br>Standard for equipment<br>in residential<br>environments | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : $\leq 75$ A                                                                                                                                                                                                                     | BS-2 | N                |
| IEC 61000-6-3:2020 | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility (EMC)<br>- Part 6-3: Generic<br>Standards - Emission<br>Standard for equipment<br>in residential<br>environments | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                                                                                                                                          | BS-1 | N                |



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| Test method        | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                           | Test range                                                                                                                                                  | Site | Field<br>testing |
|--------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61000-6-3:2020 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC)<br>- Part 6-3 : Generic standards - Emission standard for residential, commercial and light-industrial environments           | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>(2-40) Harmonic<br>Flicker : Single phase ≤16 A<br>3-phase per phase ≤75 A<br>RE : Max. 6 GHz               | BS-6 | N                |
| IEC 61000-6-4:2018 | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC)<br>- Part 6-4 : Generic standards - Emission standard for industrial environments                                             | CE : 150 kHz ~ 6 GHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                 | BS-2 | N                |
| IEC 61000-6-4:2018 | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC)<br>- Part 6-4: Generic standards Emission standard for industrial environments                                                | RE: 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                 | BS-1 | N                |
| IEC 61000-6-4:2018 | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC)<br>- Part 6-4 : Generic standards - Emission standard for industrial environments                                             | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                | BS-6 | N                |
| IEC 61000-6-8:2020 | Electrical machinery for industries                                         | Electromagnetic Compatibility (EMC)<br>- Part 6-8 : Generic Standards - Emission Standard for professional equipment in commercial and light-Industrial locations | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                | BS-2 | N                |
| IEC 61204-3:2016   | Electrical machinery for industries                                         | Low voltage power supplies, d.c. output - Part 3: Electromagnetic Compatibility(EMC)                                                                              | ESD: ±8 kV<br>RS: Max 10 V/m(80 MHz ~ 2.7 GHz)<br>EFT/Burst: Max 2 kV<br>Surge: Max 2 kV<br>CS: Max 10 V(0.15 MHz ~ 230 MHz)<br>MFS: 30 A/m<br>V-DIP: ≤75 A | BS-2 | N                |

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| Test method      | Materials/<br>Products   | Standard<br>designation                                                                                                            | Test range                                                                                                                                                                                                                                                                                                                                                                              | Site | Field<br>testing |
|------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61326-1:2012 | Measuring<br>instruments | Electrical equipment for<br>measurement control<br>and laboratory use -<br>EMC requirements<br>- Part 1: General<br>requirements   | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : 16 A per phase<br>or less                                                                                                                      | BS-1 | N                |
| IEC 61326-1:2012 | Measuring<br>instruments | Electrical equipment for<br>measurement, control<br>and laboratory use -<br>EMC requirements - Part<br>1 : General<br>requirements | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : Max $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz | BS-6 | N                |
| IEC 61326-1:2020 | Measuring<br>instruments | Electrical equipment for<br>measurement control<br>and laboratory use -<br>EMC requirements<br>- Part 1: General<br>requirements   | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : 16 A per phase<br>or less                                                                                                                      | BS-1 | N                |

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| Test method            | Materials/<br>Products   | Standard<br>designation                                                                                                                                                                                                                                                                                              | Test range                                                                                                                                                                                                                                                                                                                                                                           | Site | Field<br>testing |
|------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61326-1:2020       | Measuring<br>instruments | Electrical equipment for<br>measurement, control<br>and laboratory use -<br>EMC requirements - Part<br>1 : General<br>requirements                                                                                                                                                                                   | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : Max. $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>Max. 10 V/m<br>EFT : Max. $\pm 2$ kV<br>Surge : Max. $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, Max. 3 V<br>MFS : Max. 30 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz | BS-2 | N                |
| IEC 61326-2-<br>1:2012 | Measuring<br>instruments | Electrical equipment for<br>measurement, control<br>and laboratory use -<br>EMC requirements<br>- Part 2-1 : Particular<br>requirements - Test<br>configurations,<br>operational conditions<br>and performance criteria<br>for sensitive test and<br>measurement<br>equipment for EMC<br>unprotected<br>applications | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A                                                                                                                                 | BS-1 | N                |
| IEC 61326-2-<br>1:2012 | Measuring<br>instruments | Electrical equipment for<br>measurement, control<br>and laboratory use -<br>EMC requirements - Part<br>2-1 : Particular<br>requirements - Test<br>configurations,<br>operational conditions<br>and performance criteria<br>for sensitive test and<br>measurement<br>equipment for EMC<br>unprotected<br>applications | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz  | BS-6 | N                |

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| Test method        | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                        | Test range                                                                                                                                                                                                                                                                                                                                                        | Site | Field<br>testing |
|--------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61326-2-1:2020 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1 : Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications                  | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A                                                                                                                       | BS-2 | N                |
| IEC 61326-2-1:2020 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1 : Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications                  | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A                                                                                                                       | BS-1 | N                |
| IEC 61326-2-2:2012 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 : Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method        | Materials/<br>Products   | Standard<br>designation                                                                                                                                                                                                                                                                        | Test range                                                                                                                                                                                                                                            | Site | Field<br>testing |
|--------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61326-2-2:2012 | Measuring<br>instruments | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 : Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A           | BS-1 | N                |
| IEC 61326-2-2:2020 | Measuring<br>instruments | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 : Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A           | BS-2 | N                |
| IEC 61326-2-2:2020 | Measuring<br>instruments | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 : Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A           | BS-1 | N                |
| IEC 61326-2-3:2012 | Measuring<br>instruments | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3 : Particular requirements - Test configurations, operational conditions and performance criteria for transducers With integrated or remote signal conditioning                                  | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A per phase | BS-1 | N                |

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No. KT009

| Test method         | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                             | Test range                                                                                                                                                                                                                                                                                                                                                        | Site | Field<br>testing |
|---------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61326-2-3:2020  | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3 : Particular requirements - Test configurations, operational conditions and performance criteria for transducers With integrated or remote signal conditioning                                                                       | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A per phase                                                                                                             | BS-1 | N                |
| IEC 61326-2-3 :2012 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3 : Particular requirements - Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning                                                                       | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |
| IEC 61326-2-4:2012  | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4 : Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |



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| Test method        | Materials/<br>Products   | Standard<br>designation                                                                                                                                                                                                                                                                                                             | Test range                                                                                                                                                                                                                                            | Site | Field<br>testing |
|--------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61326-2-4:2012 | Measuring<br>instruments | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4 : Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A per phase | BS-1 | N                |
| IEC 61326-2-4:2020 | Measuring<br>instruments | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4 : Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A           | BS-2 | N                |
| IEC 61326-2-4:2020 | Measuring<br>instruments | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4 : Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A per phase | BS-1 | N                |



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| Test method        | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                    | Test range                                                                                                                                                                                                                                                                            | Site | Field<br>testing |
|--------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61326-2-5:2012 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 : Particular requirements - Test configurations, operational conditions and performance criteria for field devices with interfaces according to IEC 61784-1 | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |
| IEC 61326-2-5:2012 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 : Particular requirements - Test configurations, operational conditions and performance criteria for field devices with interfaces according to IEC 61784-1 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A per phase                                 | BS-1 | N                |
| IEC 61326-2-5:2020 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 : Particular requirements - Test configurations, operational conditions and performance criteria for field devices with interfaces according to IEC 61784-1 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A                                           | BS-2 | N                |
| IEC 61326-2-5:2020 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 : Particular requirements - Test configurations, operational conditions and performance criteria for field devices with interfaces according to IEC 61784-1 | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A per phase                                 | BS-1 | N                |

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| Test method        | Materials/<br>Products | Standard<br>designation                                                                                                                                               | Test range                                                                                                                                                                                                                                                                            | Site | Field<br>testing |
|--------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61326-2-6:2012 | Measuring instruments  | Electrical equipment for measurement control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment  | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz, 28 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A per phase                                | BS-1 | N                |
| IEC 61326-2-6:2012 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 : Particular requirements - In vitro diagnostic(IVD) medical equipment | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |
| IEC 61326-2-6:2020 | Measuring instruments  | Electrical equipment for measurement control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment  | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz, 28 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A per phase                                | BS-1 | N                |
| IEC 61547:2020     | Lighting devices       | Equipment for general lighting purposes - EMC immunity requirements                                                                                                   | ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 4$ kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 3 A/m<br>V-DIP : 16 A per phase or less                                                                                                                          | BS-1 | N                |

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| Test method             | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                           | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Site | Field<br>testing |
|-------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61547:2020          | Lighting<br>devices                       | Equipment for general<br>lighting purposes - EMC<br>immunity requirements                                                                                                                                                         | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : $\leq 75$ A                                                                                                                                                                                                                                                                                                                              | BS-2 | N                |
| IEC 61547:2020          | Lighting<br>devices                       | Equipment for general<br>lighting purposes - EMC<br>immunity requirements                                                                                                                                                         | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>70 %, 10 cycles                                                                                                                                                                                                                         | BS-6 | N                |
| IEC 61851-21-<br>2:2018 | Electrical<br>machinery for<br>industries | Electric vehicle<br>conductive charging<br>system - Part 21-2:<br>Electric vehicle<br>requirements for<br>conductive connection<br>to an AC/DC supply -<br>EMC requirements for<br>off board electric vehicle<br>charging systems | RE : 2 kHz ~ 6 GHz<br>CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>Harmonic : (2-40)<br>Flicker : Single phas<br>$\leq 16$ A<br>3-phase per phase $\leq 75$<br>A<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>M/F : 200 A/m<br>V-DIP : 0 %, 1 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz<br>Transient voltage: 0~2<br>kV | BS-1 | N                |

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| Test method         | Materials/<br>Products                      | Standard<br>designation                                                                                                                                                                                                           | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Site | Field<br>testing |
|---------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 61851-21-2:2018 | Electrical<br>machinery for<br>industries   | Electric vehicle<br>conductive charging<br>system - Part 21-2:<br>Electric vehicle<br>requirements for<br>conductive connection<br>to an AC/DC supply -<br>EMC requirements for<br>off board electric vehicle<br>charging systems | RE : 2 kHz ~ 6 GHz<br>CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>Harmonic : (2-40)<br>Flicker : Single phas<br>≤16 A<br>3-phase per phase ≤75<br>A<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>M/F : 30 A/m<br>V-DIP : 0 %, 1 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz<br>Transient voltage: 0~2<br>kV                                                                                    | BS-6 | N                |
| IEC 62003:2020      | Wired/wireless<br>communicatio<br>n devices | Nuclear power plants -<br>Instrumentation, control<br>and electrical power<br>systems - Requirements<br>for electromagnetic<br>compatibility testing                                                                              | CE :150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±15 kV<br>RS : 10 V/m<br>EFT : ±4 kV<br>Surge : ±2 kV<br>CS : 10 V<br>MFS : 10 A/m<br>Pulse MFS : 100 A/m<br>Damped oscillatory<br>MFS : 10 A/m<br>V-dip ≤16 A or V-dip ><br>16 A<br>Ring Wave : ±2 kV<br>Power Frequency<br>harmonics :<br>Fre. 16 Hz ~ 2.4 kHz<br>Voltage U1 × 12 %<br>Voltage fluctuation :<br>±12 %<br>Low CS : 10 V<br>(continuous)<br>100 V (short)<br>Ripple : 10 %<br>Damped oscillatory<br>wave :<br>2 kV (slow)<br>2 kV (fast)<br>Power freq. variation :<br>±4 %, -6 % | BS-2 | N                |

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| Test method           | Materials/<br>Products                      | Standard<br>designation                                                                                                                                                                                                               | Test range                                                                                                                                                                                                                                                                            | Site | Field<br>testing |
|-----------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 62040-2:2016      | Electrical<br>machinery for<br>industries   | Uninterruptible power<br>systems(UPS)<br>- Part 2 :<br>Electromagnetic<br>compatibility (EMC)<br>requirements                                                                                                                         | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : 16 A per phase<br>or less                                                                                      | BS-1 | N                |
| IEC 62040-2:2016      | Electrical<br>machinery for<br>industries   | Uninterruptible power<br>systems(UPS)<br>- Part 2 :<br>Electromagnetic<br>compatibility(EMC)<br>requirements                                                                                                                          | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : V-DIP : ≤16 A<br>per phase                                                                                     | BS-2 | N                |
| IEC 62040-2:2016      | Electrical<br>machinery for<br>industries   | Uninterruptible power<br>systems(UPS) - Part 2 :<br>Electromagnetic<br>compatibility(EMC)<br>requirements                                                                                                                             | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz,<br>10 V/m<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m                                                                                                       | BS-6 | N                |
| IEC 62052-<br>11:2020 | Wired/wireless<br>communicatio<br>n devices | Electricity metering<br>equipment - General<br>requirements, tests and<br>test conditions - Part 11<br>: Metering<br>equipment(9.3<br>Electromagnetic<br>compatibility (EMC)<br><Except> 9.3.12<br>External static magnetic<br>fields | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±15 kV<br>RS : 30 V/m<br>EFT : ±4 kV<br>Surge : ±4 kV<br>CS : 10 V<br>MFS : 400 A/m<br>V-dip ≤16 A or V-dip ><br>16 A<br>Ring Wave : ±4 kV<br>Damped oscillatory<br>wave : ±2.5 kV<br>DM CS : 3 A<br>DC-dip : 100 %, 60 %, 30 % | BS-2 | N                |
| IEC 62233:2005        | Electrical<br>machinery for<br>households   | Measurement methods<br>for electromagnetic<br>fields of household<br>appliances and similar<br>apparatus With regard<br>to human exposure                                                                                             | Frequency range : 10<br>Hz ~ 400 kHz                                                                                                                                                                                                                                                  | BS-1 | N                |

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| Test method            | Materials/<br>Products                    | Standard<br>designation                                                                                                                                         | Test range                                                                                                                                                                                     | Site | Field<br>testing |
|------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 62233:2005         | Electrical<br>machinery for<br>households | Measurement methods<br>for electromagnetic<br>fields of household<br>appliances and similar<br>apparatus with regard<br>to human exposure                       | Freq. : 1 Hz ~ 400 kHz                                                                                                                                                                         | BS-2 | N                |
| IEC 62233:2005         | Electrical<br>machinery for<br>households | Measurement methods<br>for electromagnetic<br>fields of household<br>appliances and similar<br>apparatus with regard<br>to human exposure                       | Freq. : 1 Hz ~ 10 GHz                                                                                                                                                                          | BS-6 | N                |
| IEC 62236-1:2018       | Electrical<br>machinery for<br>industries | Railway applications -<br>Electromagnetic<br>compatibility<br>- Part 1: General                                                                                 | -                                                                                                                                                                                              | BS-2 | N                |
| IEC 62236-2:2018       | Electrical<br>machinery for<br>industries | Railway applications -<br>Electromagnetic<br>compatibility<br>- Part 2: Emission of<br>whole railway system to<br>the outside world                             | RE : 9 kHz ~ 1 GHz                                                                                                                                                                             | BS-2 | N                |
| IEC 62236-3-<br>1:2018 | Electrical<br>machinery for<br>industries | Railway applications -<br>Electromagnetic<br>compatibility<br>- Part 3-1: Rolling stock<br>- Train and complete<br>vehicle                                      | RE : 9 kHz ~ 1 GHz                                                                                                                                                                             | BS-2 | N                |
| IEC 62236-3-<br>2:2018 | Electrical<br>machinery for<br>industries | Railway applications -<br>Electromagnetic<br>compatibility<br>- Part 3-2: Rolling stock<br>- Apparatus                                                          | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz<br>CS : 150 kHz ~ 80 MHz<br>EFT : ±2 kV<br>SURGE : ±2 kV                                                    | BS-2 | N                |
| IEC 62236-4:2018       | Electrical<br>machinery for<br>industries | Railway applications -<br>Electromagnetic<br>compatibility<br>- Part 4: Emission and<br>immunity of the<br>signalling and<br>telecommunications<br>apparatus    | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz<br>CS : 150 kHz ~ 80 MHz<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>MFS : 300 A/m                                   | BS-2 | N                |
| IEC 62236-5:2018       | Electrical<br>machinery for<br>industries | Railway applications -<br>Electromagnetic<br>compatibility<br>- Part 5: Emission and<br>immunity of the fixed<br>power supply<br>installations and<br>apparatus | CE : 150 kHz ~ 30 MHz<br>RE : 150 kHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz<br>CS : 150 kHz ~ 80 MHz<br>Oscillatory waves : 2.5<br>kV<br>EFT : ±4 kV<br>SURGE : ±4 kV<br>MFS : 300 A/m | BS-2 | N                |



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No. KT009

| Test method               | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                                                                  | Test range                                                                                                                                                                                                       | Site | Field<br>testing |
|---------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 62920:2017            | Electrical<br>machinery for<br>industries                                               | Photovoltaic power<br>generating systems -<br>EMC requirements and<br>test methods for power<br>conversion equipment                                                                                                                     | CE: 150 kHz ~ 30 MHz<br>RE: 30 MHz ~ 1 GHz<br>ESD: ±8 kV<br>RS: 80 MHz ~ 6 GHz<br>EFT: ±1 kV<br>Surge: ±2 kV<br>CS: 150 kHz ~ 80 MHz<br>MFS: 3 A/m<br>V-DIP: ≤75 A                                               | BS-2 | N                |
| IEC CISPR 14-<br>1:2016   | Electrical<br>machinery for<br>households                                               | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus<br>- Part 1 : Emission                                                                                        | CE : 148.5 kHz ~ 30<br>MHz<br>RE : 9 kHz ~ 1 GHz<br>DCE : 150 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 300<br>MHz                                                                                | BS-6 | N                |
| IEC CISPR 14-<br>2:2015   | Electrical<br>machinery for<br>households                                               | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus<br>- Part 2 : Immunity -<br>Product family standard                                                           | ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 230<br>MHz, 3 V<br>V-DIP : 0 %, 0.5 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz | BS-6 | N                |
| IEC CISPR 16-1-<br>1:2015 | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Specification for radio<br>disturbance and<br>immunity measuring<br>apparatus and methods<br>- Part 1-1 : Radio<br>disturbance and<br>immunity measuring<br>apparatus - Measuring<br>apparatus                                           | Freq. : 9 kHz ~ 18 GHz                                                                                                                                                                                           | BS-2 | N                |
| IEC CISPR 16-1-<br>2:2014 | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Specification for radio<br>disturbance and<br>immunity measuring<br>apparatus and methods<br>- Part 1-2 : Radio<br>disturbance and<br>immunity measuring<br>apparatus - Coupling<br>devices for conducted<br>disturbance<br>measurements | Freq. : 9 kHz ~ 1 GHz                                                                                                                                                                                            | BS-2 | N                |



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|---------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|------------------|
| IEC CISPR 16-1-3:2016           | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods<br>- Part 1-3 : Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power                                               | Freq. : 30 MHz ~ 1 GHz | BS-2 | N                |
| IEC CISPR 16-1-4:2019/AMD1:2020 | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods<br>- Part 1-4 : Radio disturbance and immunity measuring apparatus - Ancillary equipment - Antennas and test sites for radiated disturbance measurements   | Freq. : 9 kHz ~ 18 GHz | BS-2 | Y                |
| IEC CISPR 16-1-5:2016           | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods<br>- Part 1-5 : Radio disturbance and immunity measuring apparatus - Specifications and validation procedures for CALTS and REFTS from 30 MHz to 1 000 MHz | Freq. : 30 MHz ~ 1 GHz | BS-2 | N                |
| IEC CISPR 16-2-1:2017           | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods<br>- Part 2-1 : Methods of measurement of disturbances and immunity - Conducted disturbance measurements                                                   | Freq. : 9 kHz ~ 1 GHz  | BS-2 | N                |
| IEC CISPR 16-2-2:2010           | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods<br>- Part 2-2 : Methods of measurement of disturbances and immunity - Measurement of disturbance power                                                     | Freq. : 30 MHz ~ 1 GHz | BS-2 | N                |

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|-----------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|------------------|
| IEC CISPR 16-2-3:2016 | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods<br>- Part 2-3 : Methods of measurement of disturbances and immunity - Radiated disturbance measurements                                                  | Freq. : 9 kHz ~ 18 GHz | BS-2 | N                |
| IEC CISPR 16-2-4:2003 | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods<br>- Part 2-4 : Methods of measurement of disturbances and immunity - Immunity measurements                                                              | Freq. : 9 kHz ~ 18 GHz | BS-2 | N                |
| IEC CISPR 16-3:2015   | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods<br>- Part 3 : CISPR technical reports                                                                                                                    | -                      | BS-2 | N                |
| IEC CISPR 16-4-1:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods<br>- Part 4-1 : Uncertainty, statistics and limit modeling - Uncertainties in standardized EMC tests                                                     | -                      | BS-2 | N                |
| IEC CISPR 16-4-2:2014 | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods<br>- Part 4-2 : Uncertainty, statistics and limit modeling<br>-Measurement instrumentation uncertainty                                                   | -                      | BS-2 | N                |
| IEC CISPR 16-4-3:2007 | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods<br>- Part 4-3 : Uncertainty, statistics and limit modeling - Statistical considerations in the determination of EMC compliance of mass-produced products | -                      | BS-2 | N                |

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| Test method            | Materials/<br>Products                                                   | Standard<br>designation                                                                                                                                                                                                                                                                                                                   | Test range                       | Site | Field<br>testing |
|------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|------------------|
| IEC CISPR 16-4-4:2017  | Electrical machinery for households, Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods - Part 4-4 : Uncertainty, statistics and limit modeling - Statistics of complaints and a model for the calculation of limits for the protection of radio services                                                                                        | -                                | BS-2 | N                |
| IEEE 299:2006          | Wired/wireless communication devices                                     | Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures                                                                                                                                                                                                                                                   | Frequency : Max. 40 GHz          | BS-2 | Y                |
| IEEE 299:2006          | Wired/wireless communication devices                                     | Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures                                                                                                                                                                                                                                                   | Frequency range : 9 kHz ~ 18 GHz | BS-1 | N                |
| ISO 10605:2008         | Wired/wireless communication devices                                     | Road Vehicles - Test Methods for electrical disturbances from electrostatic discharge                                                                                                                                                                                                                                                     | Voltage: $\pm 25$ kV             | BS-5 | N                |
| ISO 10605:2008+A1:2014 | Wired/wireless communication devices                                     | Road vehicles - Test methods for electrical disturbances from electrostatic discharge                                                                                                                                                                                                                                                     | Voltage : $\pm 25$ kV            | BS-2 | N                |
| ISO 10605:2008+A1:2014 | Wired/wireless communication devices                                     | Road vehicles - Test methods for electrical disturbances from electrostatic discharge                                                                                                                                                                                                                                                     | Voltage : $\pm 25$ kV            | BS-6 | N                |
| ISO 11451-2:2015       | Wired/wireless communication devices                                     | Road vehicles — Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy<br>Part 2: Off-vehicle radiation sources<br><br><Exception><br>TLS Test method<br>7.3.2 Vehicle in charging mode connected to the power grid<br>7.3.3 Vehicle in charging mode through wireless power transmission (WPT) | 0.01 MHz ~ 18 GHz,<br>100 V/m    | BS-5 | N                |

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| Test method       | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                      | Test range                                       | Site | Field<br>testing |
|-------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------|------------------|
| ISO 11452-11:2010 | Road vehicles<br>component                 | Road vehicles —<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic<br>energy<br>Part 11: Reverberation<br>chamber                    | Freq. : 150 MHz ~ 6<br>GHz<br>E/F : Max. 100 V/m | BS-2 | N                |
| ISO 11452-1:2015  | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br><br>- Part 1 : General<br>principles and<br>terminology | -                                                | BS-6 | N                |
| ISO 11452-1:2015  | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 1 : General<br>principles and<br>terminology     | -                                                | BS-2 | N                |
| ISO 11452-2:2019  | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 2 : Absorber-lined<br>shielded enclosure         | Freq. : 80 MHz ~ 18<br>GHz<br>E/F : 100 V/m      | BS-6 | N                |
| ISO 11452-2:2019  | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 2 : Absorber-lined<br>shielded enclosure         | Freq. : 80 MHz ~ 18<br>GHz<br>E/F : 200 V/m      | BS-2 | N                |
| ISO 11452-3:2016  | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 3: Transverse<br>electromagnetic (TEM)<br>cell   | Freq. : 10 kHz ~ 200<br>MHz<br>E/F : 200 V/m     | BS-2 | N                |

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|------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------|------------------|
| ISO 11452-4:2020             | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 4 : Harness<br>excitation methods                     | BCI : 1 MHz ~ 400<br>MHz, 200 mA<br>TWC : 400 MHz ~ 3<br>GHz, 33 dBm   | BS-6 | N                |
| ISO 11452-4:2020             | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 4 : Harness<br>excitation methods                     | BCI : 100 kHz ~ 400<br>MHz, 200 mA<br>TWC : 400 MHz ~ 3<br>GHz, 33 dBm | BS-2 | N                |
| ISO 11452-<br>7:2003+A1:2013 | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 7 : Direct radio<br>frequency (RF) power<br>injection | Freq. : 1 MHz ~ 400<br>MHz<br>Power : 0.5 W                            | BS-2 | N                |
| ISO 11452-8:2015             | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 8 : Immunity to<br>magnetic fields                    | Freq. : DC 15 Hz ~ 150<br>kHz<br>MFS : DC 3 000 A/m,<br>AC 1 000 A/m   | BS-6 | N                |
| ISO 11452-8:2015             | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 8 : Immunity to<br>magnetic fields                    | Freq. : DC, 15 Hz ~ 150<br>kHz<br>MFS : DC 25 mT, AC 3<br>000 A/m      | BS-2 | N                |

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|---------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------|------------------|
| ISO 11452-9<br>Ed2.0:2021 | Automobile<br>parts                        | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 9 : Portable<br>transmitters<br><Exception><br>8.3.3.2 Testing with<br>broadband sleeve<br>antenna<br>8.3.3.3 Testing with<br>sleeve<br>8.3.3.6 Testing with HF<br>broadband sleeve<br>antenna | Frequency range : 142<br>MHz ~ 6 GHz                 | BS-6 | N                |
| ISO 11452-9:2012          | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 9 : Portable<br>transmitters                                                                                                                                                                   | Freq. : 26 MHz ~ 5.85<br>GHz                         | BS-6 | N                |
| ISO 11452-9:2012          | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 9: Portable<br>transmitters                                                                                                                                                                    | Freq. : 26 MHz ~ 5.85<br>GHz                         | BS-2 | N                |
| ISO 11452-9:2021          | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Component test<br>methods for electrical<br>disturbances from<br>narrowband radiated<br>electromagnetic energy<br>- Part 9 : Portable<br>transmitters                                                                                                                                                                   | Freq. : 26 MHz ~ 5.85<br>GHz                         | BS-2 | N                |
| ISO 16750-2:2012          | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Environmental<br>conditions and testing<br>for electrical and<br>electronic equipment -<br>Part 2 : Electrical loads                                                                                                                                                                                                    | Freq. : 50 Hz ~ 25 kHz<br>Voltage : -28 V ~ 202<br>V | BS-2 | N                |
| ISO 16750-2:2012          | Wired/wireless<br>communication<br>devices | Road vehicles -<br>Environmental<br>conditions and testing<br>for electrical and<br>electronic equipment -<br>Part 2 : Electrical loads                                                                                                                                                                                                    | Freq. : 50 Hz ~ 25 kHz<br>Voltage : -28 V ~ 202<br>V | BS-6 | N                |

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|-----------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------|------------------|
| ISO 7637-1:2015 | Wired/wireless<br>communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 1 : Definitions and general considerations                                                                   | -                                               | BS-6 | N                |
| ISO 7637-1:2015 | Wired/wireless<br>communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 1 : Definitions and general considerations                                                                   | -                                               | BS-2 | N                |
| ISO 7637-2:2004 | Wired/wireless<br>communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 2 : Electrical transient conduction along supply lines only                                                  | TI : -600 V ~ 300 V<br>TE : 1 000 ns ~ 1 000 ms | BS-2 | N                |
| ISO 7637-2:2011 | Wired/wireless<br>communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 2 : Electrical transient conduction along supply lines only                                                  | TI : -600 V ~ 300 V<br>TE : 1 000 ns ~ 1 000 ms | BS-2 | N                |
| ISO 7637-2:2011 | Wired/wireless<br>communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 2 : Electrical transient conduction along supply lines only                                                  | TI : -600 V ~ 300 V<br>TE : 1 000 ns ~ 1 000 ms | BS-6 | N                |
| ISO 7637-3:2016 | Wired/wireless<br>communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 3 : Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines | TI : -150 V ~ 150 V                             | BS-6 | N                |
| ISO 7637-3:2016 | Wired/wireless<br>communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 3 : Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines | TI : -150 V ~ 150 V                             | BS-2 | N                |



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| Test method           | Materials/<br>Products                       | Standard<br>designation                                                                                                                               | Test range                                                                                                                                                                                                                                                                      | Site | Field<br>testing |
|-----------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ITU-T K.114<br>(2022) | Wired/wireless<br>communication<br>n devices | Electromagnetic<br>Compatibility<br>Requirements and<br>Measurement Methods<br>for Digital Cellular<br>Mobile Communication<br>Base Station Equipment | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 40 GHz<br>Harmonic, flicker AC<br>Input Current : Max.<br>75 A(per phase)<br><br>ESD : ±8 kV<br>RS: 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>V-DIP : ≤ 75 A                        | BS-2 | N                |
| ITU-T K.116<br>(2019) | Wired/wireless<br>communication<br>n devices | Electromagnetic<br>compatibility<br>requirements and test<br>methods for radio<br>telecommunications<br>terminal equipment                            | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>Harmonic, flicker AC<br>Input Current : Max.<br>75 A(per phase)<br><br>ESD : ±8 kV<br>RS: 80 MHz ~ 6 GHz, 3<br>V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz,<br>3 V<br>TI : -600 V ~ 300 V<br>V-DIP : ≤ 75 A | BS-2 | N                |
| ITU-T K.123<br>(2022) | Wired/wireless<br>communication<br>n devices | Electromagnetic<br>compatibility<br>requirements for<br>electrical equipment in<br>telecommunications<br>facilities                                   | CE : 9 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>Harmonic, flicker AC<br>Input Current : Max.<br>75 A(per phase)                                                                                                                                                                   | BS-2 | N                |
| ITU-T K.137<br>(2022) | Wired/wireless<br>communication<br>n devices | Electromagnetic<br>Compatibility<br>Requirements and<br>Measurement Methods<br>for wireline<br>Telecommunications<br>Network Equipment                | CE : 9 kHz ~ 30 MHz<br>RE : 30 MHz ~ 40 GHz<br>Harmonic, flicker AC<br>Input Current : Max.<br>75 A(per phase)<br><br>ESD : ±15 kV<br>RS: 80 MHz ~ 6 GHz,<br>20 V/m<br>EFT : ±2 kV<br>Surge : ±4 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 3 A/m<br>V-DIP : ≤ 75 A          | BS-2 | N                |

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| Test method                  | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                           | Test range                                                                                                                                                                                                                                                            | Site | Field<br>testing |
|------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ITU-T K.152<br>(2022)        | Wired/wireless<br>communication<br>devices                                              | Electromagnetic<br>compatibility<br>requirements for power<br>equipment in<br>telecommunications<br>facilities                                                                                    | CE : 9 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>Harmonic, flicker AC<br>input Current : Max.<br>75 A(per phase)<br><br>ESD : ±8 kV<br>RS: 80 MHz ~ 6 GHz,<br>20 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 3 A/m,<br>V-DIP : ≤ 75 A | BS-2 | N                |
| ITU-T Rec. K.44<br>(10/2019) | Wired/wireless<br>communication<br>devices                                              | Resistivity tests for<br>telecommunications<br>equipment exposed to<br>overvoltages and<br>overcurrents - Basic<br>recommendation                                                                 | -                                                                                                                                                                                                                                                                     | BS-2 | N                |
| JASO D 001:1994              | Wired/wireless<br>communication<br>devices                                              | General rules of<br>environmental testing<br>methods for automotive<br>electronic equipment                                                                                                       | CE, BCI : Max. 1 GHz<br>RE, RS : Max. 18 GHz                                                                                                                                                                                                                          | BS-2 | N                |
| KS B 6945:2019               | Electrical<br>machinery for<br>industries                                               | Electromagnetic<br>compatibility - Product<br>family standard for lifts,<br>escalators and<br>passenger conveyors -<br>Immunity<br><Exception><br>Equipment more than<br>rated input current 63 A | ESD : ±15 kV<br>RS : 80 MHz ~ 2.675<br>GHz, 30 V/m<br>EFT : ±4 kV<br>Surge : ±2.5 kV<br>CS : 0.15 MHz ~ 80<br>MHz, 10 V<br>V-DIP : ≤ 75 A                                                                                                                             | BS-2 | N                |
| KS B 6955:2019               | Electrical<br>machinery for<br>industries                                               | Electromagnetic<br>compatibility - Product<br>family standard for lifts,<br>escalators and<br>passenger conveyors -<br>Emission<br><Exception><br>Equipment more than<br>rated input current 63 A | AC input current : Max.<br>200 A (per phase)                                                                                                                                                                                                                          | BS-2 | N                |
| KS C 0262:2014               | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility(EMC) -<br>Methods of<br>measurement<br><Exception><br>KS C CISPR 13, KS C<br>CISPR 15, KS C CISPR 20                                                             | CE, CS : Max. 1 GHz<br>RE, RS : Max. 18 GHz                                                                                                                                                                                                                           | BS-2 | N                |

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|------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C 3369:2017   | Electrical<br>machinery for<br>households | Measurement methods<br>for electromagnetic<br>fields of household<br>appliances and similar<br>apparatus with regard<br>to human exposure | Frequency range : 10<br>Hz ~ 400 kHz                                                                                                                                     | BS-1 | N                |
| KS C 9040-2:2017 | Electrical<br>machinery for<br>industries | Uninterruptible power<br>systems (UPS) - Part 2:<br>Electromagnetic<br>compatibility (EMC)<br>requirements                                | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz                              | BS-2 | N                |
| KS C 9040-2:2017 | Electrical<br>machinery for<br>industries | Uninterruptible power<br>systems(UPS)<br>- Part2 : Electromagnetic<br>compatibility(EMC)<br>requirements                                  | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz,<br>10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V          | BS-6 | N                |
| KS C 9040-2:2017 | Electrical<br>machinery for<br>industries | Uninterruptible power<br>systems(UPS) - Part 2 :<br>Electromagnetic<br>compatibility(EMC)<br>requirements                                 | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 30 A/m              | BS-1 | N                |
| KS C 9547:2020   | Lighting<br>devices                       | Equipment for general<br>lighting purposes - EMC<br>immunity requirements                                                                 | ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : 70 %, 12 cycle<br>0 %, 0.5 cycle | BS-6 | N                |
| KS C 9547:2020   | Lighting<br>devices                       | Equipment for general<br>lighting purposes - EMC<br>immunity requirements                                                                 | ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : ≤75 A                            | BS-1 | N                |

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| Test method                                              | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                                                                                                          | Test range                                                                                                                                                         | Site | Field<br>testing |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C 9547:2020<br>(MOD IEC<br>61547:2009)                | Lighting<br>devices                                                                     | Equipment for general<br>lighting purposes - EMC<br>immunity requirements                                                                                                                                                                                                        | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : $\leq 75$ A | BS-2 | N                |
| KS C 9610-3-<br>11:2017                                  | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility(EMC) -<br>Part 3-11: Limits -<br>Limitation of voltage<br>changes, voltage<br>fluctuations and flicker<br>in public low-voltage<br>supply systems -<br>Equipment with rated<br>current $\leq 75$ A and<br>subject to conditional<br>connection  | AC input current : Max<br>75 A (per phase)                                                                                                                         | BS-1 | N                |
| KS C 9610-3-<br>11:2017                                  | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility (EMC) -<br>Part 3-11: Limits -<br>Limitation of voltage<br>changes, voltage<br>fluctuations and flicker<br>in public low-voltage<br>supply systems -<br>Equipment with rated<br>current $\leq 75$ A and<br>subject to conditional<br>connection | AC input current : 16 A<br>~ 75 A<br>220 V ~ 250 V (L-N)                                                                                                           | BS-6 | N                |
| KS C 9610-3-<br>11:2017<br>(MOD IEC 61000-<br>3-11:2000) | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility(EMC) -<br>Part 3-11: Limits -<br>Limitation of voltage<br>changes, voltage<br>fluctuations and flicker<br>in public low-voltage<br>supply systems -<br>Equipment with rated<br>current $\leq 75$ A and<br>subject to conditional<br>connection  | AC input current : Max.<br>75 A (per phase)                                                                                                                        | BS-2 | N                |
| KS C 9610-3-<br>12:2017                                  | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility (EMC) -<br>Part 3-12: Limits - Limits<br>for harmonic currents<br>produced by equipment<br>connected to public<br>low-voltage systems<br>with input current $> 16$ A<br>and $\leq 75$ A per phase                                               | AC input current : 16 A<br>~ 75 A<br>220 V ~ 240 V (Single<br>phase)<br>380 V ~ 690 V (Three<br>phase)                                                             | BS-6 | N                |

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| Test method                                    | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                         | Test range                                    | Site | Field<br>testing |
|------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------|------------------|
| KS C 9610-3-12:2020                            | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 3-12 : Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current $> 16$ A and $\leq 75$ A per phase                                                      | AC input current : Max. 75 A (per phase)      | BS-2 | N                |
| KS C 9610-3-2:2020                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)                                                                                                                  | AC input current : $\leq 16$ A (Single phase) | BS-6 | N                |
| KS C 9610-3-2:2020                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)                                                                                                                   | AC input current : Max 16 A (per phase)       | BS-1 | N                |
| KS C 9610-3-2:2020<br>(MOD IEC 61000-3-2:2009) | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)                                                                                                                   | AC input current : Max. 16 A (per phase)      | BS-2 | N                |
| KS C 9610-3-3:2020                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection  | AC input current : Max 16 A (per phase)       | BS-1 | N                |
| KS C 9610-3-3:2020                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection | AC input current : $\leq 16$ A (Single phase) | BS-6 | N                |

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| Test method                                      | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                        | Test range                                                                                              | Site | Field<br>testing |
|--------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------|------------------|
| KS C 9610-3-3:2020<br>(MOD IEC 61000-3-3:2013)   | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection | AC input current : Max. 16 A (per phase)                                                                | BS-2 | N                |
| KS C 9610-4-11:2020                              | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests                                                                                                  | 0 %, 0.5 cycle<br>0 %, 1 cycle<br>70 %, 30 cycle<br>40 %, 12 cycle<br>80 %, 300 cycle<br>0 %, 300 cycle | BS-6 | N                |
| KS C 9610-4-11:2020                              | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests                                                                                                   | AC input current : Max 16 A (per phase)                                                                 | BS-1 | N                |
| KS C 9610-4-11:2020<br>(MOD IEC 61000-4-11:2004) | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests                                                                                                   | AC input current : Max. 16 A (per phase)                                                                | BS-2 | N                |
| KS C 9610-4-2:2017                               | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test                                                                                                                                     | Voltage : Max. 15 kV                                                                                    | BS-6 | N                |
| KS C 9610-4-2:2017                               | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test                                                                                                                                      | Voltage : Max. 30 kV                                                                                    | BS-1 | N                |



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| Test method                                    | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                            | Test range                                                                 | Site | Field<br>testing |
|------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------|------------------|
| KS C 9610-4-2:2017<br>(MOD IEC 61000-4-2:2008) | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test                          | Voltage : Max. 30 kV                                                       | BS-2 | N                |
| KS C 9610-4-3:2017                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field             | Freq. : 80 MHz ~ 6 GHz<br>E/F : 10 V/m                                     | BS-6 | N                |
| KS C 9610-4-3:2017                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test | Freq. : 80 MHz ~ 6 GHz<br>E/F : 10 V/m                                     | BS-1 | N                |
| KS C 9610-4-3:2017<br>(MOD IEC 61000-4-3:2010) | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test | Freq. : 80 MHz ~ 6 GHz<br>E/F : 10 V/m<br>Field Testing : Field Uniformity | BS-2 | Y                |
| KS C 9610-4-4:2020                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test                  | Voltage : Max. 5.5 kV                                                      | BS-1 | N                |
| KS C 9610-4-4:2020                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test                 | Voltage : Max. 4 kV                                                        | BS-6 | N                |
| KS C 9610-4-4:2020<br>(MOD IEC 61000-4-4:2012) | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test                  | Voltage : Max. 5.5 kV                                                      | BS-2 | N                |



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| Test method                                    | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                    | Test range                                                                            | Site | Field<br>testing |
|------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------|------------------|
| KS C 9610-4-5:2020                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test                                                   | Voltage : $\pm 4$ kV                                                                  | BS-6 | N                |
| KS C 9610-4-5:2020                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-5: Testing and measurement techniques - Surge Immunity Test                                                    | Voltage : $\pm 7$ kV                                                                  | BS-1 | N                |
| KS C 9610-4-5:2020<br>(MOD IEC 61000-4-5:2014) | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-5: Testing and measurement techniques - Surge Immunity Test                                                    | Voltage : $\pm 7$ kV                                                                  | BS-2 | N                |
| KS C 9610-4-6:2020                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields  | Freq. : 150 kHz ~ 230 MHz<br>Voltage : 30 V                                           | BS-1 | N                |
| KS C 9610-4-6:2020                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields | Freq. : 150 kHz ~ 230 MHz<br>Voltage : 10 V                                           | BS-6 | N                |
| KS C 9610-4-6:2020<br>(MOD IEC 61000-4-6:2013) | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields  | Freq. : 150 kHz ~ 230 MHz<br>Voltage : 30 V                                           | BS-2 | N                |
| KS C 9610-4-8:2017                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test                          | Maximum magnetic field<br>(continuous field) 100 A/m<br>(Short persistence) 1 000 A/m | BS-6 | N                |

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| Test method                                    | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                             | Test range                                                                                                                                 | Site | Field<br>testing |
|------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C 9610-4-8:2017                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-8: Testing and measurement techniques -Power frequency magnetic field immunity test                     | maximum Magnetic field :<br>(continuous field) 100 A/m<br>(short persistence) 1 000 A/m                                                    | BS-1 | N                |
| KS C 9610-4-8:2017<br>(MOD IEC 61000-4-8:2009) | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-8: Testing and measurement techniques -Power frequency magnetic field immunity test                     | Maximum Magnetic field :<br>(Continuous field) 100 A/m<br>(Short persistence) 1 000 A/m                                                    | BS-2 | N                |
| KS C 9610-4-9:2019                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) — Part 4-9: Testing and measurement techniques — Impulse magnetic field immunity test                            | Pulse MFS : 1 000 A/m                                                                                                                      | BS-1 | N                |
| KS C 9610-4-9:2019                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-9: Testing and measurement techniques - Impulse magnetic field immunity test                            | Pulse MFS : 1 000 A/m                                                                                                                      | BS-2 | N                |
| KS C 9610-4-9:2019                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques - Impulse magnetic field immunity test                           | magnetic field : 1 000 A/m                                                                                                                 | BS-6 | N                |
| KS C 9610-6-1:2019                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments | ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : ≤75 A | BS-1 | N                |

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| Test method                                 | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                             | Test range                                                                                                                                                                                                             | Site | Field<br>testing |
|---------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C 9610-6-1:2019                          | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>70 %, 30 cycle<br>0 %, 300 cycle    | BS-6 | N                |
| KS C 9610-6-1:2019 (MOD IEC 61000-6-1:2016) | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic Compatibility (EMC) - Part 6: Generic Standards - Section 1: Immunity for Residential Commercial and Light-Industrial Environments  | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>MFS : 3 A/m<br>V-DIP : $\leq 75$ A                                                           | BS-2 | N                |
| KS C 9610-6-2:2019                          | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments                                   | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 75$ A                                                        | BS-1 | N                |
| KS C 9610-6-2:2019                          | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments                                   | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : 0 %, 1 cycle<br>40 %, 12 cycle<br>70 %, 30 cycle<br>0 %, 300 cycle | BS-6 | N                |
| KS C 9610-6-2:2019 (MOD IEC 61000-6-2:2016) | Electrical machinery for industries                                         | Electromagnetic Compatibility (EMC) - Part 6-2: Generic Standards - Immunity for Industrial Environments                                            | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : $\leq 75$ A                                                        | BS-2 | N                |

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| Test method                                    | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                             | Test range                                                         | Site | Field<br>testing |
|------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------|------------------|
| KS C 9610-6-3:2017                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                       | BS-6 | N                |
| KS C 9610-6-3:2017<br>(MOD IEC 61000-6-3:2011) | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments  | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A        | BS-2 | N                |
| KS C 9610-6-3:2023                             | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments  | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>H/F : ≤75 A        | BS-1 | N                |
| KS C 9610-6-4:2017                             | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments                                   | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                       | BS-6 | N                |
| KS C 9610-6-4:2022                             | Electrical machinery for industries                                         | Electromagnetic compatibility(EMC) - Part 6-4: Generic standards - Emission standard for industrial environments                                    | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                       | BS-1 | N                |
| KS C 9610-6-4:2022<br>(MOD IEC 61000-6-4:2018) | Electrical machinery for industries                                         | Electromagnetic compatibility(EMC) - Part 6-4: Generic standards - Emission standard for industrial environments                                    | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                       | BS-2 | N                |
| KS C 9811:2019                                 | Electrical machinery for industries,<br>Medical devices                     | Industrial, scientific and medical equipment — Radio-frequency disturbance characteristics — Limits and methods of measurement                      | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>(Exclusion : 30 m) | BS-6 | N                |

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| Test method                                   | Materials/<br>Products                                           | Standard<br>designation                                                                                                                                                                                                               | Test range                                                                                                                                        | Site | Field<br>testing |
|-----------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C 9811:2019                                | Electrical<br>machinery for<br>industries,<br>Medical<br>devices | Industrial, scientific and<br>medical equipment —<br>Radio-frequency<br>disturbance<br>characteristics — Limits<br>and methods of<br>measurement<br><exception><br>6.3.2.3 Table 10<br>radiation disturbance<br>limits(distance 30 m) | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>MFE : 9 kHz ~ 30 MHz                                                                              | BS-1 | N                |
| KS C 9811:2019                                | Electrical<br>machinery for<br>industries,<br>Medical<br>devices | Industrial, scientific and<br>medical equipment —<br>Radio-frequency<br>disturbance<br>characteristics — Limits<br>and methods of<br>measurement<br><Exception><br>6.3.2.3 Table 10<br>radiation disturbance<br>limits(distance 30 m) | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>MFE : 9 kHz ~ 30 MHz                                                                              | BS-2 | N                |
| KS C 9814-1:2020<br>(MOD CISPR 14-<br>1:2016) | Electrical<br>machinery for<br>households                        | Electromagnetic<br>compatibility —<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus — Part 1:<br>Emission                                                                                      | CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 30 MHz ~ 1 GHz                       | BS-2 | N                |
| KS C 9814-1:2022                              | Electrical<br>machinery for<br>households                        | Electromagnetic<br>compatibility —<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus — Part 1:<br>Emission                                                                                      | CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 30 MHz ~ 6 GHz                       | BS-1 | N                |
| KS C 9814-1:2022                              | Electrical<br>machinery for<br>households                        | Electromagnetic<br>compatibility —<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus — Part 1:<br>Emission                                                                                      | CE : 148.5 kHz ~ 30<br>MHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 30 MHz ~ 1 GHz                                                                     | BS-6 | N                |
| KS C 9814-2:2020<br>(MOD CISPR 14-<br>2:2015) | Electrical<br>machinery for<br>households                        | Electromagnetic<br>compatibility —<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus — Part<br>2 : Immunity                                                                                     | ESD : ±30 kV<br>RS : 80 MHz ~ 1 GHz,<br>10 V/m<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 230<br>MHz, 3 V<br>MFS : 10 A/m<br>V-DIP : ≤75 A | BS-2 | N                |

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| Test method      | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                     | Test range                                                                                                                                                                                  | Site | Field<br>testing |
|------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C 9814-2:2022 | Electrical<br>machinery for<br>households | Electromagnetic<br>compatibility —<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus — Part<br>2 : Immunity                                                                                                                                                           | ESD : $\pm 30$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 230<br>MHz, 3 V<br>MFS : 10 A/m<br>V-DIP : $\leq 75$ A                      | BS-1 | N                |
| KS C 9814-2:2022 | Electrical<br>machinery for<br>households | Electromagnetic<br>compatibility —<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus — Part<br>2 : Immunity                                                                                                                                                           | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 230<br>MHz, 3 V<br>V-DIP : 0 %, 0.5 cycle<br>40 %, 12 cycle<br>70 %, 30 cycle | BS-6 | N                |
| KS C 9815:2019   | Lighting<br>devices                       | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><Exception><br>4.5.2 Table 8 - Radiated<br>disturbance limits in the<br>frequency range 9 kHz<br>to 30 MHz (loop<br>diameter : 3 m and 4 m)                           | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 1 GHz<br>MFE : 9 kHz ~ 30 MHz                                                                                                                           | BS-2 | N                |
| KS C 9815:2019   | Lighting<br>devices                       | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><Exception><br>4.2 Insertion loss<br>4.4.1 Table 3a -<br>Radiated disturbance<br>limits in the frequency<br>range 9 kHz to 30 MHz<br>(loop diameter : 3 m<br>and 4 m) | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 1 GHz<br>MFE : 9 kHz ~ 30 MHz                                                                                                                           | BS-6 | N                |



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| Test method                                           | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                                                                                                           | Test range                                                        | Site | Field<br>testing |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------|------------------|
| KS C 9815:2023                                        | Lighting<br>devices                                                                     | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><Exception><br>4.5.2 Table 8 - Radiated<br>disturbance limits in the<br>frequency range 9 kHz<br>to 30 MHz (loop<br>diameter : 3 m and 4 m) | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 1 GHz<br>MFE : 9 kHz ~ 30 MHz | BS-1 | N                |
| KS C 9816-1-<br>1:2020 (MOD<br>CISPR 16-1-<br>1:2014) | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Specification for radio<br>disturbance and<br>immunity measuring<br>apparatus and methods-<br>Part 1-1 : Radio<br>disturbance and<br>immunity measuring<br>apparatus-Measuring<br>apparatus                                                                                       | Frequency range : 9<br>kHz ~ 18 GHz                               | BS-2 | N                |
| KS C 9816-1-<br>1:2022                                | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Specification for radio<br>disturbance and<br>immunity measuring<br>apparatus and methods-<br>Part 1-1 : Radio<br>disturbance and<br>immunity measuring<br>apparatus-Measuring<br>apparatus                                                                                       | Frequency range : 9<br>kHz ~ 18 GHz                               | BS-1 | N                |
| KS C 9816-1-<br>2:2020 (MOD<br>CISPR 16-1-<br>2:2014) | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Specification for radio<br>disturbance and<br>immunity measuring<br>apparatus and methods-<br>Part 1-2 : Radio<br>disturbance and<br>immunity measuring<br>apparatus - coupling<br>devices for conducted<br>disturbance<br>measurements                                           | Frequency range : 9<br>kHz ~ 1.0 GHz                              | BS-2 | N                |
| KS C 9816-1-<br>2:2022                                | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Specification for radio<br>disturbance and<br>immunity measuring<br>apparatus and methods-<br>Part 1-2 : Radio<br>disturbance and<br>immunity measuring<br>apparatus - Ancillary<br>equipment - Conducted<br>disturbances                                                         | Frequency range : 9<br>kHz ~ 1.0 GHz                              | BS-1 | N                |



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| Test method                                | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                         | Test range                         | Site | Field<br>testing |
|--------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------|------------------|
| KS C 9816-1-3:2017 (MOD CISPR 16-1-3:2004) | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 1-3 : Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power                       | Frequency range : 30 MHz ~ 1.0 GHz | BS-2 | N                |
| KS C 9816-1-3:2022                         | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 1-3 : Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power                       | Frequency range : 30 MHz ~ 1.0 GHz | BS-1 | N                |
| KS C 9816-1-4:2020                         | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 1-4 : Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements | Frequency range : 9 kHz ~ 18 GHz   | BS-1 | N                |
| KS C 9816-1-4:2020 (MOD CISPR 16-1-4:2012) | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 1-4 : Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements | Frequency range : 9 kHz ~ 18 GHz   | BS-2 | Y                |
| KS C 9816-1-5:2020                         | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 1-5 : Radio disturbance and immunity measuring apparatus - Antenna calibration test sites for 30 MHz to 1 000 MHz        | Frequency range : 30 MHz ~ 1.0 GHz | BS-1 | N                |

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| Test method                                | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                  | Test range                         | Site | Field<br>testing |
|--------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------|------------------|
| KS C 9816-1-5:2020 (MOD CISPR 16-1-5:2012) | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 1-5 : Radio disturbance and immunity measuring apparatus - Antenna calibration test sites for 30 MHz to 1 000 MHz | Frequency range : 30 MHz ~ 1.0 GHz | BS-2 | N                |
| KS C 9816-2-1:2020                         | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 2-1 : Methods of measurement of disturbances and immunity - Conducted disturbance measurements                    | Frequency range : 9 kHz ~ 1.0 GHz  | BS-1 | N                |
| KS C 9816-2-1:2020 (MOD CISPR 16-2-1:2014) | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 2-1 : Methods of measurement of disturbances and immunity - Conducted disturbance measurements                    | Frequency range : 9 kHz ~ 1.0 GHz  | BS-2 | N                |
| KS C 9816-2-2:2020                         | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 2-2 : Methods of measurement of disturbances and immunity - Measurement of disturbance power                      | Frequency range : 30 MHz ~ 1.0 GHz | BS-1 | N                |
| KS C 9816-2-2:2020 (MOD CISPR 16-2-2:2010) | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 2-2 : Methods of measurement of disturbances and immunity - Measurement of disturbance power                      | Frequency range : 30 MHz ~ 1.0 GHz | BS-2 | N                |

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| Test method                                | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                              | Test range                         | Site | Field<br>testing |
|--------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------|------------------|
| KS C 9816-2-3:2020                         | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 2-3 : Methods of measurement of disturbances and immunity - Radiated disturbance Measurements | Frequency range : 9 kHz ~ 18 GHz   | BS-1 | N                |
| KS C 9816-2-3:2020 (MOD CISPR 16-2-3:2014) | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 2-3 : Methods of measurement of disturbances and immunity - Radiated disturbance Measurements | Frequency range : 9 kHz ~ 18 GHz   | BS-2 | N                |
| KS C 9816-2-4:2017                         | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 2-4 : Methods of measurement of disturbances and immunity - Immunity measurements             | Frequency range : 150 kHz ~ 18 GHz | BS-1 | N                |
| KS C 9816-2-4:2017 (MOD CISPR 16-2-4:2003) | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 2-4 : Methods of measurement of disturbances and immunity - Immunity measurements             | Frequency range : 150 kHz ~ 18 GHz | BS-2 | N                |
| KS C 9816-2-5:2020                         | Electrical machinery for households,<br>Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 2-5 : In situ measurement of disturbing emissions produced by physically large equipment      | Frequency range : 9 kHz ~ 18 GHz   | BS-1 | N                |

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| Test method                                   | Materials/<br>Products                                                   | Standard<br>designation                                                                                                                                                         | Test range                                                                                                                                                                                                           | Site | Field<br>testing |
|-----------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C 9816-2-5:2020 (MOD CISPR/TR 16-2-5:2008) | Electrical machinery for households, Electrical machinery for industries | Specification for radio disturbance and immunity measuring apparatus and methods- Part 2-5 : In situ measurement of disturbing emissions produced by physically large equipment | Frequency range : 9 kHz ~ 18 GHz                                                                                                                                                                                     | BS-2 | Y                |
| KS C 9832:2019                                | Wired/wireless communication devices                                     | Electromagnetic compatibility of multimedia equipment - Emission requirements                                                                                                   | CE(power ports) : 150 kHz ~ 30 MHz<br>CE(signal ports) : 150 MHz ~ 2.15 GHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                   | BS-6 | N                |
| KS C 9832:2019 (MOD CISPR 32:2015)            | Wired/wireless communication devices                                     | Electromagnetic compatibility of multimedia equipment - Emission requirements                                                                                                   | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                                                                         | BS-2 | N                |
| KS C 9832:2023                                | Wired/wireless communication devices                                     | Electromagnetic compatibility of multimedia equipment - Emission requirements                                                                                                   | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                                                                         | BS-1 | N                |
| KS C 9835:2019                                | Wired/wireless communication devices                                     | Electromagnetic Compatibility of multimedia equipment - Immunity equipments                                                                                                     | ESD : ±8 kV<br>RS : 80 MHz ~ 5 GHz, 3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>MFS : 1 A/m<br>V-DIP : ≤ 75 A<br>SPL : 0.15 MHz ~ 1 GHz                                                   | BS-1 | N                |
| KS C 9835:2019                                | Wired/wireless communication devices                                     | Electromagnetic Compatibility of multimedia equipment - Immunity requirements                                                                                                   | ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : ±1 kV<br>Surge : ±4 kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 1 A/m<br>V-DIP : < 5 %, 0.5 cycle<br>70 %, 30 cycle<br>< 5 %, 300 cycle<br>SPL : 0.15 MHz ~ 1 GHz | BS-6 | N                |

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| Test method                              | Materials/<br>Products                    | Standard<br>designation                                                                                                 | Test range                                                                                                                                                                                                                                                                                             | Site | Field<br>testing |
|------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C 9835:2019<br>(MOD CISPR<br>35:2016) | Wired/wireless<br>communication devices   | Electromagnetic<br>Compatibility of<br>multimedia equipment -<br>Immunity requirements                                  | ESD : $\pm 8$ kV<br>RS: 80 MHz ~ 5 GHz, 3<br>V/m<br>EFT: $\pm 1$ kV<br>Surge: $\pm 2$ kV<br>CS: 150 kHz ~ 80 MHz,<br>3 V<br>MFS: 1 A/m<br>V-DIP: $\leq 75$ A<br>SPL: 0.15 MHz ~ 1 GHz                                                                                                                  | BS-2 | N                |
| KS C 9974-<br>10:2020                    | Electrical<br>machinery for<br>industries | Test method of EMC for<br>arc welding equipment                                                                         | RE : 30 MHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7<br>GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>V-DIP : $\leq 16$ A                                                                    | BS-1 | N                |
| KS C 9990:2017                           | Wired/wireless<br>communication devices   | Vehicles and internal<br>combustion engine<br>driven equipment<br>Electromagnetic<br>compatibility (EMC) test<br>method | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>BCI : 20 MHz ~ 400<br>MHz, 60 mA<br>RI : 80 MHz ~ 2 GHz,<br>30 V/m<br>TI : -450 V ~ 150 V<br>TE : 1 000 ns ~ 1 000<br>ms<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>HF : $\leq 64$ A                                                                 | BS-2 | N                |
| KS C 9990:2017                           | Wired/wireless<br>communication devices   | Vehicles and internal<br>combustion engine<br>driven equipment<br>Electromagnetic<br>compatibility (EMC) test<br>method | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>BCI : 20 MHz ~ 400<br>MHz, 60 mA<br>RI : 80 MHz ~ 2 GHz,<br>30 V/m<br>TI : -450 V ~ 150 V<br>TE : 1 000 ns ~ 1 000<br>ms<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>AC input current : $\leq 16$<br>A (Single phase)<br>16 A ~ 75 A (Three<br>phase) | BS-6 | N                |

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| Test method           | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Test range                                                                                                                                                                 | Site | Field<br>testing |
|-----------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C CISPR<br>13:2011 | Wired/wireless<br>communication<br>devices | Sound and television<br>broadcast receivers and<br>associated equipment-<br>radio disturbance<br>characteristics-limits and<br>methods of<br>measurement<br>5.3 Disturbance voltage<br>at the mains terminals in<br>the frequency range 150<br>kHz to 30 MHz<br>5.6 Measurement of<br>the disturbance power<br>of associated equipment<br>(video recorders<br>excluded) in the<br>frequency range 30<br>MHz to 1 GHz<br>5.7 Measurement of<br>radiation in the<br>frequency range 30<br>MHz to 1 GHz at 3 m | CE : Max. 1 GHz<br>RE : Max. 18 GHz                                                                                                                                        | BS-2 | N                |
| KS C CISPR<br>22:2011 | Wired/wireless<br>communication<br>devices | Information technology<br>equipment - Radio<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement                                                                                                                                                                                                                                                                                                                                                                                     | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                                                                                                                               | BS-2 | N                |
| KS C CISPR<br>24:2014 | Wired/wireless<br>communication<br>devices | Information technology<br>equipment - Immunity<br>characteristics - Limits<br>and methods of<br>measurement                                                                                                                                                                                                                                                                                                                                                                                                 | ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m<br>EFT : ±1 kV<br>SURGE : ±4 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>MFS : 1 A/m<br>V-DIP : ≤75 A<br>SPL : 0.15 MHz ~ 1<br>GHz | BS-2 | N                |

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| Test method                  | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                | Test range                                                                           | Site | Field<br>testing |
|------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|------------------|
| KS C CISPR<br>25:2011        | Wired/wireless<br>communication<br>devices                                              | Vehicles, boats and<br>internal combustion<br>engines - Radio<br>disturbance<br>characteristics - Limit<br>and methods of<br>measurement for the<br>protection of on-board<br>receivers<br><Exception><br>Section 5 :<br>Measurement of<br>emissions received by an<br>antenna on the same<br>vehicle<br>Section 6 : 5 ~ 6.<br>Radiated emissions from<br>components/modules -<br>TEM cell method,<br>Stripline method | CE : 150 kHz ~ 108<br>MHz<br>RE : 150 kHz ~ 2.5 GHz                                  | BS-2 | Y                |
| KS C CISPR<br>25:2017        | Wired/wireless<br>communication<br>devices                                              | Vehicles, boats and<br>internal combustion<br>engines - Radio<br>disturbance<br>characteristics - Limit<br>and methods of<br>measurement for the<br>protection of on-board<br>receivers<br><Exception><br>Section 5 :<br>Measurement of<br>emissions received by an<br>antenna on the same<br>vehicle<br>Section 6 : 5 ~ 6.<br>Radiated emissions from<br>components/modules -<br>TEM cell method,<br>Stripline method | CE-V : 150 kHz ~ 108<br>MHz<br>CE-S : 150 kHz ~ 245<br>MHz<br>RE : 150 kHz ~ 2.5 GHz | BS-6 | N                |
| KS C IEC 61000-4-<br>13:2009 | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>Compatibility (EMC)<br>- Part 4-13 : Testing and<br>Measurement<br>Techniques - Harmonics<br>and Interharmonics<br>Including Mains<br>Signalling at A.C. Power<br>Port, Low Frequency<br>Immunity Tests                                                                                                                                                                                             | 9th harmonic<br>Frequency range : 2<br>kHz / 50 Hz, 2.4 kHz /<br>60 Hz               | BS-1 | N                |



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| Test method             | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                  | Test range                                                                                                                                                                                                                       | Site | Field<br>testing |
|-------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 60255-26:2015  | Measuring instruments               | Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements                                                                                          | RE : 30 MHz~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : ±4 kV<br>Surge : ±4 kV<br>CS : 150 kHz ~ 80 MHz<br>Low CS : 0 kHz ~ 150 kHz<br>MFS : 300 A/m<br>V-DIP : ≤75 A<br>DOW : ±2.5 kV      | BS-2 | N                |
| KS C IEC 60533:2003     | Electrical machinery for industries | Electrical and electronic installation in ships - Electromagnetic compatibility <Exception> Equipment and installation group F : non-electrical items + equipment                        | CE : 10 kHz ~ 30 MHz<br>RE : 150 kHz ~ 2 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 2 GHz, 10 V/m<br>EFT : ±2 kV<br>Surge : ±1 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>V-DIP : ≤75 A<br>Low CS : 50 Hz ~ 10 kHz                             | BS-2 | N                |
| KS C IEC 60601-1-2:2020 | Medical devices                     | Medical electrical equipment - Part 1-2 : General requirements for basic safety and essential performance - Collateral standard : Electromagnetic compatibility - Requirements and tests | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : ≤75 A<br>PMF : 30 kHz ~ 13.56 MHz (65 A/m) | BS-1 | N                |
| KS C IEC 60601-1-2:2020 | Medical devices                     | Medical electrical equipment - Part1-2: General requirements for basic safety and essential performance - Collateral standard : Electromagnetic disturbances - Requirements and tests    | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>ESD : ±15 kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : ≤75 A                                      | BS-2 | N                |

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| Test method              | Materials/<br>Products                                                   | Standard<br>designation                                                                                                                                                                                              | Test range                                                                                                                                                                                                                                                                                                                                                                                         | Site | Field<br>testing |
|--------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 60601-1-2:2021  | Medical devices                                                          | Medical electrical equipment - Part 1-2 : General requirements for basic safety and essential performance - Collateral standard : Electromagnetic compatibility - Requirements and tests                             | CE : 9 kHz ~ 30 MHz<br>RE : 150 kHz ~ 18 GHz<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz, 28 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 6 V<br>MFS : 30 A/m<br>V-DIP : 0 %, 0.5 cycle (At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°)<br>0 %, 1 cycles (At 0°)<br>70 %, 25/30 cycles (50/60) Hz, (At 0°)<br>Voltage interruptions : 0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |
| KS C IEC 60947-1:2014    | Measuring instruments                                                    | Low-voltage switchgear and controlgear - Part 1 : General rules 7.3 Electromagnetic compatibility(EMC)                                                                                                               | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 6 GHz<br>MFE : 9 kHz ~ 30 MHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : $\leq 75$ A                                                                                                                                                                           | BS-2 | N                |
| KS C IEC 61000-3-12:2013 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 3 : Limits - Section 12 : Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current $> 16$ A and $\leq 75$ A per phase | AC input current : Max. 75 A (per phase)                                                                                                                                                                                                                                                                                                                                                           | BS-2 | N                |
| KS C IEC 61000-4-12:2006 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic Compatibility (EMC) - Part 4-12 : Testing and Measurement Techniques - Oscillatory Waves Immunity Test                                                                                               | Voltage oscillation frequency : 100 kHz $\pm$ 10 %<br>Open-circuit voltage : 250 to 4 kV<br>Short-circuit Current : 333 A $\pm$ 10 % 12 $\Omega$                                                                                                                                                                                                                                                   | BS-1 | N                |
| KS C IEC 61000-4-12:2008 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-12 : Testing and measurement techniques - Ring wave immunity test                                                                                                        | Voltage : $\pm 4$ kV                                                                                                                                                                                                                                                                                                                                                                               | BS-2 | N                |

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| Test method              | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                         | Test range                                                                                                         | Site | Field<br>testing |
|--------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 61000-4-13:2010 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-13 : Testing and measurement techniques - Harmonics and inter harmonics including mains signalling at a.c. power port, low frequency immunity tests | Freq. : 16 Hz ~ 2.4 kHz<br>Voltage : $U_1 \times 12 \%$                                                            | BS-2 | N                |
| KS C IEC 61000-4-13:2010 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-13 : Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests  | Freq. : 16 Hz ~ 2.4 kHz<br>Voltage : $U_1 \times 12 \%$                                                            | BS-6 | N                |
| KS C IEC 61000-4-14:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-14 : Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase           | Test level : $U(\text{nom})$ ,<br>$U(\text{nom})-10 \%$ $U(\text{nom})$ ,<br>$U(\text{nom})+10 \%$ $U(\text{nom})$ | BS-1 | N                |
| KS C IEC 61000-4-14:2010 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-14 : Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase           | Voltage : $\pm 12 \%$ $U_n$                                                                                        | BS-6 | N                |
| KS C IEC 61000-4-14:2010 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-14 : Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase           | Voltage : $\pm 12 \%$ $U_n$                                                                                        | BS-2 | N                |

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| Test method              | Materials/<br>Products                                                   | Standard<br>designation                                                                                                                                                                         | Test range                                                                                                                                                                                                                                    | Site | Field<br>testing |
|--------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 61000-4-16:2011 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic Compatibility (EMC) - Part 4-16 : Testing and Measurement Techniques - Test for Immunity to Conducted, Common Mode Disturbances in the Frequency Range 0 Hz to 150 kHz          | Frequency range : 0 Hz ~ 150 kHz                                                                                                                                                                                                              | BS-1 | N                |
| KS C IEC 61000-4-17:2009 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic Compatibility (EMC) - Part 4-17 : Testing and Measurement Techniques - Ripple on d.c. Input Power Port Immunity Test                                                            | Output voltage range up to 360 V                                                                                                                                                                                                              | BS-1 | N                |
| KS C IEC 61000-4-17:2010 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-17 : Testing and measurement techniques - Ripple on d.c. input power port immunity test                                                             | DC input current : Max. 600 V                                                                                                                                                                                                                 | BS-2 | N                |
| KS C IEC 61000-4-27:2014 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-27 : Testing and measurement techniques - Unbalance, immunity test                                                                                  | AC input current : Max. 16 A (per phase)                                                                                                                                                                                                      | BS-2 | N                |
| KS C IEC 61000-4-28:2010 | Electrical machinery for households, Electrical machinery for industries | Electromagnetic compatibility(EMC) - Part 4-28 : Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase | AC input current : Max. 16 A (per phase)                                                                                                                                                                                                      | BS-2 | N                |
| KS C IEC 61326-1:2005    | Measuring instruments                                                    | Electrical equipment for measurement, control and laboratory use - EMC requirements                                                                                                             | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : Max $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MF : 30 A/m<br>V-DIP : 16 A per phase or less | BS-1 | N                |

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| Test method           | Materials/<br>Products              | Standard<br>designation                                                                                            | Test range                                                                                                                                                                                                                                                                                                                                                                                      | Site | Field<br>testing |
|-----------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 61326-1:2008 | Measuring instruments               | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : Max $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz                                                           | BS-6 | N                |
| KS C IEC 61326-1:2008 | Measuring instruments               | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : max. $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, Max. 10 V/m<br>EFT : Max. $\pm 2$ kV<br>Surge : Max. $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, Max. 3 V<br>MFS : Max. 30 A/m<br>V-DIP : 0 %, 0.5 cycle<br>0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-2 | N                |
| KS C IEC 62040-2:2008 | Electrical machinery for industries | Uninterruptible power systems (UPS) Part 2: Electromagnetic compatibility (EMC) requirements                       | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V                                                                                                                                                                                                                        | BS-6 | N                |
| KS C IEC 62236-1:2011 | Electrical machinery for industries | Railway applications - Electromagnetic compatibility - Part 1 : General                                            | -                                                                                                                                                                                                                                                                                                                                                                                               | BS-2 | N                |

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| Test method             | Materials/<br>Products                    | Standard<br>designation                                                                                                                                           | Test range                                                                                                                                                                 | Site | Field<br>testing |
|-------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 62236-2:2011   | Electrical<br>machinery for<br>industries | Railway<br>applications - Electroma<br>gnetic<br>compatibility - Part<br>2 : Emission of the<br>whole railway system to<br>the outside world                      | RE : 9 kHz ~ 1 GHz                                                                                                                                                         | BS-2 | N                |
| KS C IEC 62236-3-1:2011 | Electrical<br>machinery for<br>industries | Railway<br>applications - Electroma<br>gnetic<br>compatibility - Part<br>3 - 1 : Rolling<br>stock - Train and<br>complete vehicle                                 | RE : 9 kHz ~ 1 GHz                                                                                                                                                         | BS-2 | N                |
| KS C IEC 62236-3-2:2011 | Electrical<br>machinery for<br>industries | Railway<br>applications - Electroma<br>gnetic<br>compatibility - Part<br>3 - 2 : Rolling<br>stock - Apparatus                                                     | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 1 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.5 GHz<br>CS : 150 kHz ~ 80 MHz<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV                  | BS-2 | N                |
| KS C IEC 62236-4:2011   | Electrical<br>machinery for<br>industries | Railway<br>applications - Electroma<br>gnetic<br>compatibility - Part<br>4 : Emission and<br>immunity of the<br>signalling and<br>telecommunications<br>apparatus | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 1 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.5 GHz<br>CS : 150 kHz ~ 80 MHz<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>MFS : 300 A/m | BS-2 | N                |
| KS C IEC 62236-5:2011   | Electrical<br>machinery for<br>industries | Railway<br>applications - Electroma<br>gnetic<br>compatibility - Part<br>5 : Emission and<br>immunity of fixed power<br>supply installations and<br>apparatus     | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 1 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.5 GHz<br>CS : 150 kHz ~ 80 MHz<br>EFT : $\pm 4$ kV<br>SURGE : $\pm 4$ kV<br>MFS : 300 A/m | BS-2 | N                |

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| Test method              | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                   | Site | Field<br>testing |
|--------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS R IEC 61851-21-2:2018 | Electrical machinery for industries | Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems | RE : 2 kHz ~ 6 GHz<br>CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>Harmonic : (2-40)<br>Flicker : Single phas<br>≤16 A<br>3-phase per phase ≤75 A<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>M/F : 30 A/m<br>V-DIP : 0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz<br>Transient voltage: 0~2 kV  | BS-6 | N                |
| KS R IEC 61851-21-2:2018 | Electrical machinery for industries | Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems | RE : 2 kHz ~ 6 GHz<br>CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>Harmonic : (2-40)<br>Flicker : Single phas<br>≤16 A<br>3-phase per phase ≤75 A<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>M/F : 200 A/m<br>V-DIP : 0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz<br>Transient voltage: 0~2 kV | BS-1 | N                |



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| Test method              | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                | Test range                                                                                                                                                                                                                                                                                                                                                                                                                              | Site | Field<br>testing |
|--------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS R IEC 61851-21-2:2019 | Electrical machinery for industries  | Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems | RE : 150 kHz ~ 6 GHz<br>CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>(2-40) Harmonic<br>Flicker : Single phase $\leq 16$ A<br>3-phase per phase $\leq 75$ A<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz, 10 V/m<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : 0 %, 1 cycle<br>40 %, 10/12 cycles (50/60) Hz<br>70 %, 25/30 cycles (50/60) Hz<br>0 %, 250/300 cycles (50/60) Hz | BS-6 | N                |
| KS R ISO 11452-1:2013    | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 1 : General principles and terminology                                       | -                                                                                                                                                                                                                                                                                                                                                                                                                                       | BS-6 | N                |
| KS R ISO 11452-1:2013    | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 1 : General principles and terminology                                       | -                                                                                                                                                                                                                                                                                                                                                                                                                                       | BS-2 | N                |
| KS R ISO 11452-2:2013    | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2 : Absorber-lined shielded enclosure                                        | Freq. : 80 MHz ~ 18 GHz<br>E/F : 200 V/m                                                                                                                                                                                                                                                                                                                                                                                                | BS-2 | N                |

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| Test method           | Materials/<br>Products               | Standard<br>designation                                                                                                                                         | Test range                                                     | Site | Field<br>testing |
|-----------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------|------------------|
| KS R ISO 11452-2:2013 | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2 : Absorber-lined shielded enclosure | Freq. : 80 MHz ~ 18 GHz<br>E/F : 100 V/m                       | BS-6 | N                |
| KS R ISO 11452-4:2013 | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4 : Bulk current injection (BCI)      | BCI : 1 MHz ~ 400 MHz, 200 mA<br>TWC : 400 MHz ~ 3 GHz, 33 dBm | BS-6 | N                |
| KS R ISO 11452-4:2013 | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4 : Bulk current injection (BCI)      | BCI : 1 MHz ~ 400 MHz, 200 mA<br>TWC : 400 MHz ~ 3 GHz, 33 dBm | BS-2 | N                |
| KS R ISO 11452-8:2013 | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 8: Immunity to magnetic fields        | Freq. : 15 Hz ~ 150 kHz<br>M/F : AC 3 000 A/m                  | BS-6 | N                |
| KS R ISO 11452-9:2012 | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 9: Portable transmitters              | Freq. : 26 MHz ~ 5.85 GHz                                      | BS-6 | N                |
| KS R ISO 7637-1:2015  | Wired/wireless communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 1 : Definitions and general considerations                                          | -                                                              | BS-6 | N                |
| KS R ISO 7637-1:2015  | Wired/wireless communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 1 : Definitions and general considerations                                          | -                                                              | BS-2 | N                |

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| Test method          | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                  | Test range                                                                                                                                                                                                       | Site | Field<br>testing |
|----------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS R ISO 7637-2:2015 | Wired/wireless communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 2 : Electrical transient conduction along supply lines only                                                  | TI : -600 V ~ 300 V<br>TE : 1 000 ns ~ 1 000 ms                                                                                                                                                                  | BS-2 | N                |
| KS R ISO 7637-2:2015 | Wired/wireless communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 2 : Electrical transient conduction along supply lines only                                                  | TI : -600 V ~ 300 V<br>TE : 1 000 ns ~ 1 000 ms                                                                                                                                                                  | BS-6 | N                |
| KS R ISO 7637-3:2015 | Wired/wireless communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 3 : Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines | TI : -120 V ~ 80 V                                                                                                                                                                                               | BS-6 | N                |
| KS R ISO 7637-3:2015 | Wired/wireless communication devices | Road vehicles - Electrical disturbances from conduction and coupling - Part 3 : Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines | TI : -120 V ~ 80 V                                                                                                                                                                                               | BS-2 | N                |
| KS X 3124:2020       | Wired/wireless communication devices | Test method of common technical EMC for radio equipment                                                                                                                                  | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz, 3 V/m<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz, 3 V<br>V-DIP : ≤ 75 A<br>H/F : ≤ 75 A<br>TI : -600 V ~ 300 V | BS-1 | N                |

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| Test method                                  | Materials/<br>Products                     | Standard<br>designation                                                                              | Test range                                                                                                                                                                                                                 | Site | Field<br>testing |
|----------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS X 3124:2020<br>(MOD EN 301<br>489-1:2017) | Wired/wireless<br>communication<br>devices | Test method of common<br>technical EMC for radio<br>equipment                                        | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| KS X 3125:2020                               | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>radio equipments of<br>short-range                                         | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : ≤16 A<br>TI : -600 V ~ 300 V                      | BS-1 | N                |
| KS X 3125:2020<br>(MOD EN 301<br>489-3:2013) | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>radio equipment of<br>short-range                                          | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| KS X 3126:2020                               | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>radio equipment of low-<br>output for wireless data<br>transmission system | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : ≤16 A<br>TI : -600 V ~ 300 V                      | BS-1 | N                |

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| Test method                                   | Materials/<br>Products                     | Standard<br>designation                                                                              | Test range                                                                                                                                                                                                                 | Site | Field<br>testing |
|-----------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS X 3126:2020<br>(MOD EN 301<br>489-17:2009) | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>radio equipment of low-<br>output for wireless data<br>transmission system | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| KS X 3127:2014                                | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>private land mobile<br>radio (PMR) and<br>ancillary equipment              | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : ≤16 A                                             | BS-1 | N                |
| KS X 3127:2014                                | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>private land mobile<br>radio(PMR) and ancillary<br>equipment               | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| KS X 3128:2014                                | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>digital enhanced<br>cordless<br>telecommunications(DE<br>CT) equipment     | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |

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| Test method    | Materials/<br>Products                     | Standard<br>designation                                                                               | Test range                                                                                                                                                                                                                 | Site | Field<br>testing |
|----------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS X 3128:2014 | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>digital enhanced<br>cordless<br>telecommunications<br>(DECT) equipment      | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : ≤16 A<br>TI : -600 V ~ 300 V                      | BS-1 | N                |
| KS X 3130:2014 | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>low-output radio<br>equipment for voice and<br>audio signal<br>transmission | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : ≤16 A<br>TI : -600 V ~ 300 V                      | BS-1 | N                |
| KS X 3130:2014 | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>low-output radio<br>equipment for voice and<br>audio signal<br>transmission | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| KS X 3131:2014 | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>citizen's band(CB) radio<br>and ancillary equipment                         | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |

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| Test method      | Materials/<br>Products                     | Standard<br>designation                                                                     | Test range                                                                                                                                                                                                                                      | Site | Field<br>testing |
|------------------|--------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS X 3131:2014   | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>citizens' band (CB) radio<br>and ancillary equipment              | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 16$ A<br>TI : -600 V ~ 300 V                      | BS-1 | N                |
| KS X 3132:2014   | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>radio<br>telecommunication<br>equipment using<br>common frequency | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 16$ A<br>TI : -600 V ~ 300 V                      | BS-1 | N                |
| KS X 3132:2014   | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>radio<br>telecommunication<br>equipment using<br>common frequency | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : $\leq 75$ A<br>TI : -600 V ~ 300 V                     | BS-2 | N                |
| KS X 3134 : 2014 | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>medical radio<br>equipment implanted in<br>body                   | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : $\leq 75$ A<br>TI : -600 V ~ 300 V | BS-2 | N                |



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| Test method    | Materials/<br>Products                     | Standard<br>designation                                                    | Test range                                                                                                                                                                                                                                      | Site | Field<br>testing |
|----------------|--------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS X 3136:2014 | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>amateur radio<br>equipment                       | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 16$ A<br>TI : -600 V ~ 300 V                      | BS-1 | N                |
| KS X 3136:2014 | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>amateur radio<br>equipment                       | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : $\leq 75$ A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| KS X 3137:2014 | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>radio paging equipment                           | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 16$ A<br>TI : -600 V ~ 300 V                      | BS-1 | N                |
| KS X 3139:2014 | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>radio equipment for<br>mobile satellite services | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : $\leq 16$ A<br>TI : -600 V ~ 300 V                      | BS-1 | N                |

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| Test method                    | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                               | Test range                                                                                                                                                                                                                 | Site | Field<br>testing |
|--------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS X 3139:2014                 | Wired/wireless<br>communication<br>devices | Test method of EMC for<br>radio equipment for<br>mobile satellite services                                                                                                                                                                                                                                                            | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>3 V/m<br>EFT : ±1 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>V-DIP : 0 % ~ 100 %<br>H/F : ≤75 A<br>TI : -600 V ~ 300 V | BS-2 | N                |
| KS X 3143:2020                 | Electrical<br>machinery for<br>households  | Test Methods of radio<br>disturbance for<br>residential wireless<br>power-transmission<br>equipments                                                                                                                                                                                                                                  | CE : 9 kHz ~ 30 MHz<br>RE : 9 kHz ~ 1 GHz                                                                                                                                                                                  | BS-1 | N                |
| MIL-PRF-15733<br>(2007; Rev H) | Electrical<br>materials and<br>components  | Filters and Capacitors,<br>Radio Frequency<br>Interference, General<br>Specification for<br>4.6.8 Voltage Drop<br>4.6.9 Insertion Loss<br>4.6.10 Overload                                                                                                                                                                             | PCI : 5 000 A or less<br>Supply capacity : 200 A<br>or less                                                                                                                                                                | BS-2 | Y                |
| MIL-STD-188-125-<br>1:2005     | Wired/wireless<br>communication<br>devices | High-altitude<br>electromagnetic<br>pulse(HEMP) protection<br>for ground-based C4I<br>facilities performing<br>critical, time-urgent<br>missions Part 1 Fixed<br>facilities<br><Exception><br>Long pulse of Appendix<br>B, Surface current<br>density and Surface<br>charge density of<br>Appendix C in the<br>frequency range <5 MHz | Frequency range : 10<br>kHz ~ 1 GHz(SE), 100<br>kHz ~ 1 GHz(CWI)<br>Max applied<br>Current(PCI) : Max. 5<br>000 A, ≤ 20 ns, 500 ~<br>550 ns                                                                                | BS-2 | Y                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method            | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                             | Test range                                                                                                                   | Site | Field<br>testing |
|------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-188-125-2:2005 | Wired/wireless communication devices | High-altitude electromagnetic pulse(HEMP) protection for ground-based C4I facilities performing critical, time-urgent missions Part 1<br>Transportable Systems <Exception><br>Long pulse of Appendix B, AppendixD (THREAT-LEVEL ILLUMINATION TEST PROCEDURES FOR TRANSPORTABLE GROUND-BASED SYSTEMS) Surface current density and Surface charge density of Appendix C in the frequency range <5 MHz | Frequency range : 10 kHz ~ 1 GHz(SE), 100 kHz ~ 1 GHz(CWI)<br>Max applied Current(PCI) : Max. 5 000 A, ≤ 20 ns, 500 ~ 550 ns | BS-2 | Y                |
| MIL-STD-220C:2009      | Wired/wireless communication devices | Test Method Standard - Method of insertion Loss Measurement                                                                                                                                                                                                                                                                                                                                         | Frequency : Max. 10GHz                                                                                                       | BS-2 | N                |
| MIL-STD-285:1956       | Wired/wireless communication devices | Attenuation Measurements for Enclosures, Electromagnetic Shielding, for Electronic Test Purposes, Method of                                                                                                                                                                                                                                                                                         | Frequency : Max. 10GHz                                                                                                       | BS-2 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Test range                                                                                                                                                                                             | Site | Field<br>testing |
|-------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-461D:1993 | Wired/wireless communication devices | DEPARTMENT OF DEFENSE INTERFACE STANDARD REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE EMISSIONS AND SUSCEPTIBILITY<br>5.3.1 CE101 conducted emissions power leads 30 Hz to 10 kHz<br>5.3.2 CE102 conducted emissions power leads 10 kHz to 10 MHz<br>5.3.4 CS101 conducted susceptibility power leads 30 Hz to 50 kHz<br>5.3.9 CS114 conducted susceptibility bulk cable injection 10 kHz to 400 MHz<br>5.3.10 CS115 conducted susceptibility bulk cable injection impulse excitation<br>5.3.11 CS116 conducted susceptibility damped sinusoidal transients 10 kHz to 100 MHz<br>5.3.12 RE101 radiated emissions magnetic field 30 Hz to 100 kHz<br>5.3.13 RE102 radiated emissions electric field 10 kHz to 18 GHz<br>5.3.15 RS101 radiated susceptibility magnetic field 30 Hz to 100 kHz<br>5.3.16 RS103 radiated susceptibility electric field 10 kHz to 40 GHz<br><Exception><br>10 kHz to 100 MHz, 200 V/m, 1 m distance | 30 Hz ~ 10 kHz<br>10 kHz ~ 10 MHz<br>30 Hz ~ 50 kHz<br>10 kHz ~ 400 MHz<br>Impulse 5 A<br>10 kHz ~ 100 MHz<br>30 Hz ~ 100 kHz<br>10 kHz ~ 18 GHz<br>30 Hz ~ 100 kHz<br>10 kHz ~ 18 GHz<br>Max. 200 V/m | BS-5 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test range                                                                                                                                                 | Site | Field<br>testing |
|-------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-461D:1993 | Wired/wireless communication devices | <p>Department of Defense Test Method Standard for Measurement</p> <p>5.3.1 CE101, conducted emissions, power leads, 30 Hz to 10 kHz</p> <p>5.3.2 CE102, conducted emissions, power leads, 10 kHz to 10 MHz</p> <p>5.3.4 CS101, conducted susceptibility, power leads, 30 Hz to 150 kHz</p> <p>5.3.9 CS114, conducted susceptibility, bulk cable injection, 10 kHz to 200 MHz</p> <p>5.3.10 CS115, conducted susceptibility, bulk cable injection, impulse excitation</p> <p>5.3.11 CS116, conducted susceptibility, damped sinusoidal transients, 10 kHz to 100 MHz</p> <p>5.3.12 RE101, radiated emissions, magnetic field, 30 Hz to 100 kHz</p> <p>5.3.13 RE102, radiated emissions, electric field, 10 kHz to 18 GHz</p> <p>5.3.15 RS101, radiated susceptibility, magnetic field, 30 Hz to 100 kHz</p> <p>5.3.16 RS103, radiated susceptibility, electric field, 2 MHz to 18 GHz</p> | <p>CE : 30 Hz ~ 10 MHz</p> <p>CS : 30 Hz ~ 1 GHz</p> <p>RE, RS : Max. 18 GHz</p> <p>Electric Field : Max. 50 V/m</p> <p>Magnetic Field : Max. 183 dBpT</p> | BS-2 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Test range                                                                                                                                                                                                                                                     | Site | Field<br>testing |
|-------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-461E:1999 | Wired/wireless communication devices | <p>DEPARTMENT OF DEFENSE INTERFACE STANDARD REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT</p> <p>5.4 CE101 conducted emissions power leads 30 Hz to 10 kHz</p> <p>5.5 CE102 conducted emissions power leads 10 kHz to 10 MHz</p> <p>5.7 CS101 conducted susceptibility power leads 30 Hz to 150 kHz</p> <p>5.12 CS114 conducted susceptibility bulk cable injection 10 kHz to 200 MHz</p> <p>5.13 CS115 conducted susceptibility bulk cable injection impulse excitation</p> <p>5.14 CS116 conducted susceptibility damped sinusoidal transients cable and power leads 10 kHz to 100 MHz</p> <p>5.15 RE101 radiated emissions magnetic field 30 Hz to 100 kHz</p> <p>5.16 RE102 radiated emissions electric field 10 kHz to 18 GHz</p> <p>5.18 RS101 radiated susceptibility magnetic field 30 Hz to 100 kHz</p> <p>5.19 RS103 radiated susceptibility electric field 2 MHz to 40 GHz</p> <p>&lt;Exception&gt;</p> <ul style="list-style-type: none"> <li>- 2 MHz to 100 MHz, 200 V/m, 1 m distance</li> <li>- 5.19.4 RS103 alternative test procedures</li> <li>- reverberation chamber (mode-tuned)</li> </ul> | <p>30 Hz to 10 kHz</p> <p>10 kHz to 10 MHz</p> <p>30 Hz to 150 kHz</p> <p>10 kHz to 200 MHz</p> <p>Impulse 5 A</p> <p>10 kHz to 100 MHz</p> <p>30 Hz to 100 kHz</p> <p>10 kHz to 18 GHz</p> <p>30 Hz to 100 kHz</p> <p>2 MHz to 18 GHz</p> <p>Max. 200 V/m</p> | BS-5 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Test range                                                                                                                                                 | Site | Field<br>testing |
|-------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-461E:1999 | Wired/wireless communication devices | <p>Department of Defense Interface Standard</p> <p>5.4 CE101, conducted emissions, power leads, 30 Hz to 10 kHz</p> <p>5.5 CE102, conducted emissions, power leads, 10 kHz to 10 MHz</p> <p>5.7 CS101, conducted susceptibility, power leads, 30 Hz to 50 kHz</p> <p>5.12 CS114, conducted susceptibility, bulk cable injection, 10 kHz to 200 MHz</p> <p>5.13 CS115, conducted susceptibility, bulk cable injection, impulse excitation</p> <p>5.14 CS116, conducted susceptibility, damped sinusoidal transients, cable and power leads, 10 kHz to 100 MHz</p> <p>5.15 RE101, radiated emissions, magnetic field, 30 Hz to 100 kHz</p> <p>5.16 RE102, radiated emissions, electric field, 10 kHz 18 GHz</p> <p>5.18 RS101, radiated susceptibility, magnetic field, 30 Hz to 100 kHz</p> <p>5.19 RS103, radiated susceptibility, electric field, 2 MHz to 18 GHz</p> | <p>CE : 30 Hz ~ 10 MHz</p> <p>CS : 30 Hz ~ 1 GHz</p> <p>RE, RS : Max. 18 GHz</p> <p>Electric Field : Max. 50 V/m</p> <p>Magnetic Field : Max. 183 dBpT</p> | BS-2 | N                |



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No. KT009

| Test method           | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test range                                                                                                                                                                                                                  | Site | Field<br>testing |
|-----------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-461F:<br>2007 | Wired/wireless<br>communication<br>devices | DEPARTMENT OF<br>DEFENSE INTERFACE<br>STANDARD<br>REQUIREMENTS FOR<br>THE CONTROL OF<br>ELECTROMAGNETIC<br>INTERFERENCE<br>CHARACTERISTICS OF<br>SUBSYSTEMS AND<br>EQUIPMENT<br>5.4 CE101 conducted<br>emissions power leads<br>30 Hz to 10 kHz<br>5.5 CE102 conducted<br>emissions power leads<br>10 kHz to 10 MHz<br>5.7 CS101 conducted<br>susceptibility power<br>leads 30 Hz to 150 kHz<br>5.11 CS106 conducted<br>susceptibility transients<br>power leads<br>5.13 CS114 conducted<br>susceptibility bulk cable<br>injection 10 kHz to 200<br>MHz<br>5.14 CS115 conducted<br>susceptibility bulk cable<br>injection impulse<br>excitation<br>5.15 CS116 conducted<br>susceptibility damped<br>sinusoidal transients<br>cable and power leads<br>10 kHz to 100 MHz<br>5.16 RE101 radiated<br>emissions magnetic field<br>30 Hz to 100 kHz<br>5.17 RE102 radiated<br>emissions electric field<br>10 kHz to 18 GHz<br>5.19 RS101 radiated<br>susceptibility magnetic<br>field 30 Hz to 100 kHz<br>5.20 RS103 radiated<br>susceptibility electric<br>field 2 MHz to 40 GHz<br><Exception><br>- 2 MHz to 100 MHz,<br>200 V/m, 1 m distance<br>- 5.20.4 RS103<br>alternative test<br>procedures -<br>reverberation chamber<br>(mode-tuned) | 30 Hz to 10 kHz<br>10 kHz to 10 MHz<br>30 Hz to 150 kHz<br>400 Vpeak<br>4 kHz to 200 MHz<br>Impulse 5 A<br>10 kHz to 100 MHz<br>30 Hz to 100 kHz<br>10 kHz to 18 GHz<br>30 Hz to 100 kHz<br>2 MHz to 18 GHz<br>Max. 200 V/m | BS-5 | N                |

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No. KT009

| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test range                                                                                                                                                 | Site | Field<br>testing |
|-------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-461F:2007 | Wired/wireless communication devices | <p>Department of Defense Test Method Standard Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment</p> <p>5.4 CE101, conducted emissions, power leads, 30 Hz to 10 kHz</p> <p>5.5 CE102, conducted emissions, power leads, 10 kHz to 10 MHz</p> <p>5.7 CS101, conducted susceptibility, power leads, 30 Hz to 150 kHz</p> <p>5.11 CS106, conducted susceptibility, transients, power leads</p> <p>5.13 CS114, conducted susceptibility, bulk cable injection, 10 kHz to 200 MHz</p> <p>5.14 CS115, conducted susceptibility, bulk cable injection, impulse excitation</p> <p>5.15 CS116, conducted susceptibility, damped sinusoidal transients, cable and power leads, 10 kHz to 100 MHz</p> <p>5.16 RE101, radiated emissions, magnetic field, 30 Hz to 100 kHz</p> <p>5.17 RE102, radiated emissions, electric field, 10 kHz 18 GHz</p> <p>5.19 RS101, radiated susceptibility, magnetic field, 30 Hz to 100 kHz</p> <p>5.20 RS103, radiated susceptibility, electric field, 2 MHz to 18 GHz</p> | <p>CE : 30 Hz ~ 10 MHz</p> <p>CS : 30 Hz ~ 1 GHz</p> <p>RE, RS : Max. 18 GHz</p> <p>Electric Field : Max. 50 V/m</p> <p>Magnetic Field : Max. 183 dBpT</p> | BS-2 | N                |

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No. KT009

| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Test range                                                                                                                                                                                                                                                                                                                                                                                         | Site | Field<br>testing |
|-------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-461G:2015 | Wired/wireless communication devices | <p>Department of Defense Interface Standard, Requirements for the control of Electromagnetic Interference Characteristics of Subsystems and Equipment</p> <p>5.4 CE101, conducted emissions, audio frequency currents, power leads</p> <p>5.5 CE102, conducted emissions, radio frequency potential, power leads</p> <p>5.7 CS101, conducted susceptibility, power leads</p> <p>5.12 CS114, conducted susceptibility, bulk cable injection</p> <p>5.13 CS115, conducted susceptibility, bulk cable injection, impulse excitation</p> <p>5.14 CS116, conducted susceptibility, damped sinusoidal transients, cables and power leads</p> <p>5.15 CS117, conducted susceptibility, lightning induced transients, cables and power leads</p> <p>5.16 CS118, personnel borne electrostatic discharge</p> <p>5.17 RE101, radiated emissions, magnetic field</p> <p>5.18 RE102, radiated emissions, electric field</p> <p>5.20 RS101, radiated susceptibility, magnetic field</p> <p>5.21 RS103, radiated susceptibility, electric field</p> <p>&lt;Exception&gt;</p> <ul style="list-style-type: none"> <li>- 2 MHz ~ 100 MHz, 200 V/m</li> <li>- 5.21.4 RS103 alternative test procedures - reverberation chamber</li> </ul> | <p>30 Hz ~ 10 kHz</p> <p>10 kHz ~ 10 MHz</p> <p>30 Hz ~ 150 kHz, Max. 136 dBμV</p> <p>4 kHz ~ 200 MHz, Max. 109 dBμA</p> <p>Max. 5 A</p> <p>10 kHz ~ 100 MHz, Max. 10 A</p> <p>Waveform: 1, 2, 3, 4, 5A, 6, Multiple Stroke, Multiple Burst</p> <p>Contact/Air, ±15 kV</p> <p>30 Hz ~ 100 kHz</p> <p>10 kHz ~ 18 GHz</p> <p>30 Hz ~ 100 kHz, Max. 183 dBpT</p> <p>2 MHz ~ 18 GHz, Max. 200 V/m</p> | BS-5 | N                |

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No. KT009

| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                              | Site | Field<br>testing |
|-------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-461G:2015 | Wired/wireless communication devices | <p>Department of Defense Interface Standard, Requirements for the control of Electromagnetic Interference Characteristics of Subsystems and Equipment</p> <p>5.4 CE101, conducted emissions, audio frequency currents, power leads</p> <p>5.5 CE102, conducted emissions, radio frequency potential, power leads</p> <p>5.7 CS101, conducted susceptibility, power leads</p> <p>5.12 CS114, conducted susceptibility, bulk cable injection</p> <p>5.13 CS115, conducted susceptibility, bulk cable injection, impulse excitation</p> <p>5.14 CS116, conducted susceptibility, damped sinusoidal transients, cables and power leads</p> <p>5.16 CS118, personnel borne electrostatic discharge</p> <p>5.17 RE101, radiated emissions, magnetic field</p> <p>5.18 RE102, radiated emissions, electric field</p> <p>5.20 RS101, radiated susceptibility, magnetic field</p> <p>5.21 RS103, radiated susceptibility, electric field</p> <p>&lt;Exception&gt;<br/>5.21.4 RS103 alternative test procedures - reverberation chamber</p> | <p>CE101: 30 Hz ~ 10 kHz</p> <p>CE102: 10 kHz ~ 10 MHz</p> <p>CS101: 30 Hz ~ 150 kHz, Max. 136 dB<math>\mu</math>V</p> <p>CS114: 4 kHz ~ 200 MHz, Max. 109 dB<math>\mu</math>A</p> <p>CS115: Max. 5 A</p> <p>CS116: 10 kHz ~ 100 MHz, Max. 10 A</p> <p>CS118: Contact/Air, <math>\pm</math>15 kV</p> <p>RE101: 30 Hz ~ 100 kHz</p> <p>RE102: 10 kHz ~ 18 GHz</p> <p>RS101: 30 Hz ~ 100 kHz, Max. 183 dBpT</p> <p>RS103: 2 MHz ~ 18 GHz, Max. 50 V/m</p> | BS-2 | N                |

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No. KT009

| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Test range                                                                                                                                                                                      | Site | Field<br>testing |
|-------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-462D:1993 | Wired/wireless communication devices | DEPARTMENT OF DEFENSE TEST METHOD FOR MEASUREMENT OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS<br>5. CE101 conducted emissions power leads 30 Hz to 10 kHz<br>5. CE102 conducted emissions power leads 10 kHz to 10 MHz<br>5. RE101 radiated emissions magnetic field 30 Hz to 100 kHz<br>5. RE102 radiated emissions electric field 10 kHz to 18 GHz<br>5. CS101 conducted susceptibility power leads 30 Hz to 50 kHz<br>5. CS114 conducted susceptibility bulk cable injection 10 kHz to 400 MHz<br>5. CS115 conducted susceptibility bulk cable injection impulse excitation 30 Hz to 100 kHz<br>5. CS116 conducted susceptibility damped sinusoidal transients cable and power leads 10 kHz to 100 MHz<br>5. RS101 radiated susceptibility magnetic field 30 Hz to 100 kHz<br>5. RS103 radiated susceptibility electric field 10 kHz to 40 GHz | 30 Hz to 10 kHz<br>10 kHz to 10 MHz<br>30 Hz to 100 kHz<br>10 kHz to 18 GHz<br>30 Hz to 50 kHz<br>10 kHz to 400 MHz<br>Impulse 5 A<br>10 kHz to 100 MHz<br>30 Hz to 100 kHz<br>10 kHz to 18 GHz | BS-5 | N                |

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No. KT009

| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Test range                                                                                                                                                                                                              | Site | Field<br>testing |
|-------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-462D:1993 | Wired/wireless communication devices | Department of Defense Test Method Standard<br>5. CE101, conducted emissions, power leads, 30 Hz to 10 kHz<br>5. CE102, conducted emissions, power leads, 10 kHz to 10 MHz<br>5. RE101, radiated emissions, magnetic field, 30 Hz to 100 kHz<br>5. RE102, radiated emissions, electric field, 10 kHz to 18 GHz<br>5. CS101, conducted susceptibility, power leads, 30 Hz to 150 kHz<br>5. CS114, conducted susceptibility, bulk cable injection, 10 kHz to 200 MHz<br>5. CS115, conducted susceptibility, bulk cable injection, impulse excitation<br>5. CS116, conducted susceptibility, damped sinusoidal transients, cable and power leads, 10 kHz to 100 MHz<br>5. RS101, radiated susceptibility, magnetic field, 30 Hz to 100 kHz<br>5. RS103, radiated susceptibility, electric field, 2 MHz to 18 GHz | CE : 30 Hz ~ 10 MHz<br>CS : 30 Hz ~ 1 GHz<br>RE, RS : Max. 18 GHz<br>Electric Field : Max. 50 V/m<br>Magnetic Field : Max. 183 dBpT                                                                                     | BS-2 | N                |
| MIL-STD-464C:2010 | Wired/wireless communication devices | ELECTROMAGNETIC ENVIRONMENTAL EFFECTS REQUIREMENTS FOR SYSTEMS<br>5.1 Margins<br>5.2 Intra-system electromagnetic compatibility(EMC)<br>5.3 External RF EME<br>5.9 Electromagnetic radiation hazards(EMRADHAZ)<br>5.11 Electrical bonding<br>5.12 External grounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Margins : 10 kHz ~ 18 GHz<br>External RF EME : 10 kHz ~ 40 GHz (Max Peak Level 3 600 V/m, Max Average Level 490 V/m)<br>EMRADHAZ : 100 kHz ~ 18 GHz<br>Electrical bonding: Min 0.01 mΩ<br>External grounds: Min 0.01 mΩ | BS-5 | N                |

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No. KT009

| Test method                  | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Test range                                                                                                          | Site | Field<br>testing |
|------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------|------------------|
| NRC Reg. Guide<br>1.180:2000 | Electrical<br>machinery for<br>industries | Guidelines for<br>evaluating<br>electromagnetic and<br>radio-frequency<br>interference in safety-<br>related instrumentation<br>and control systems :<br>4.1 CE101-Conducted<br>emissions, Low<br>Frequency<br>4.2 CE102-Conducted<br>emissions, High<br>Frequency<br>4.3 CS101-Conducted<br>susceptibility, Low<br>Frequency<br>4.4 CS114-Conducted<br>susceptibility, High<br>Frequency<br>4.5 RE101-Radiated<br>emissions, Magnetic<br>field<br>4.6 RE102-Radiated<br>emissions, Electric field<br>4.7 RS101-Radiated<br>susceptibility, MF<br>4.8 RS103-Radiated<br>susceptibility, EF<br>6.1 Ring wave<br>6.2 Combination wave<br>6.3 Electrically Fast<br>Transients | CE, CS : Max. 1 GHz<br>RE, RS : Max. 18 GHz<br>Electric field : Max. 50<br>V/m<br>Magnetic field : Max.<br>180 dBpT | BS-2 | N                |



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No. KT009

| Test method                    | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test range                                                                                                          | Site | Field<br>testing |
|--------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------|------------------|
| NRC Reg. Guide<br>1.180:2003   | Electrical<br>machinery for<br>industries                                               | Guidelines for<br>evaluating<br>electromagnetic and<br>radio-frequency<br>interference in safety-<br>related instrumentation<br>and control systems :<br>3.1 CE101-Conducted<br>emissions, Low<br>Frequency<br>3.2 CE102-Conducted<br>emissions, High<br>Frequency<br>3.3 RE101-Radiated<br>emissions, Magnetic<br>field<br>3.4 RE102-Radiated<br>emissions, Electric field<br>3.5 IEC Emissions Tests<br>4.1.1 CS101-Conducted<br>susceptibility, LF<br>4.1.2 CS114-Conducted<br>susceptibility, HF<br>4.1.3 IEC Conducted<br>Susceptibility - Power<br>4.2 EMI/RFI Conducted<br>Susceptibility - Signal<br>4.3.1 RS101-Radiated<br>susceptibility, MF<br>4.3.2 RS103-Radiated<br>susceptibility, EF<br>4.3.3 IEC Radiated<br>Susceptibility Tests<br>5.1 IEEE C62.41 Ring<br>wave and IEC 61000-4-<br>12<br>5.2 IEEE C62.41<br>Combination wave and<br>IEC 61000-4-5<br>5.3 IEEE C62.41<br>Electrically Fast<br>Transients and IEC<br>61000-4-4 | CE, CS : Max. 1 GHz<br>RE, RS : Max. 18 GHz<br>Electric field : Max. 50<br>V/m<br>Magnetic field : Max.<br>180 dBpT | BS-2 | N                |
| Portaria INMETRO<br>nº377:2021 | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Approves the Technical<br>Quality Regulation and<br>Conformity Assessment<br>Requirements for<br>Televisions-<br>Consolidated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                                                                        | BS-1 | N                |
| RS-KTL-2012-<br>0018:2012      | Wired/wireless<br>communicatio<br>n devices                                             | HEMP Protection Filter<br>5.3.1 Performance Test<br>6.2.4 Overload test<br>6.3.2 PCI Life Testing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PCI : 5 000 A or less<br>Power capacity : 200 A<br>or less                                                          | BS-2 | Y                |

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No. KT009

| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Site | Field<br>testing |
|-------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| RTCA DO-160F:2007 | Wired/wireless communication devices | <p>Environmental Conditions and Test Procedures for Airborne Equipment</p> <p>Section 15.0 Magnetic Effect<br/>Section 16.0 Power Input<br/>Section 17.0 Voltage Spike</p> <p>Section 18.0 Audio Frequency Conducted Susceptibility -Power Inputs</p> <p>Section 19.0 Induced Signal Susceptibility</p> <p>Section 20.0 Radio Frequency Susceptibility (Radiated and Conducted)</p> <p>&lt;Exception&gt;<br/>-20.6 Radiated Susceptibility(RS) Test: Alternative Procedure -Reverberation Chamber</p> <p>Section 21.0 Emission of Radio Frequency Energy</p> <p>Section 22.0 Lightning Induced Transient Susceptibility</p> <p>Section 25.0 Electrostatic Discharge (ESD)<br/>&lt;Exception&gt;<br/>Section 1.0 Purpose and Applicability<br/>Section 2.0 Definitions of Terms - General<br/>Section 3.0 Conditions of Tests<br/>Section 4.0 Temperature and Altitude<br/>Section 5.0 Temperature Variation<br/>Section 6.0 Humidity<br/>Section 7.0 Operational Shocks and Crash Safety<br/>Section 8.0 Vibration<br/>Section 9.0 Explosion</p> | <p>Section 15:0 :<br/>Dc : 1 degree</p> <p>Section 16:0 :<br/>AC : 115 V@ (360-800) Hz, 230 V@ (360-800) Hz<br/>DC : 14 V, 28 V, 270 V</p> <p>Section 17.0 :<br/>Category A: 600 V<br/>Category B: 2 × V (AC RMS AND/OR DC, OR 200 V Whichever Is Less)</p> <p>Section 18.0 :<br/>10 Hz ~ 148.593 6 kHz (Max. 16 Vp-p)</p> <p>Section 19.0 :<br/>350 Hz ~ 32 kHz (Max. 120 A-m, 5 400 V-m)</p> <p>Section 20.0 :<br/>CS: 10 kHz ~ 400 MHz<br/>RS: 100 MHz ~ 18 GHz (Max Peak Level 3 600 V/m, Max Average Level 490 V/m)</p> <p>Section 21.0 :<br/>CE: 150 kHz ~ 152 MHz<br/>RE: 100 MHz ~ 6 GHz</p> <p>Section 22.0 :<br/>Waveform: 1,2,3,4,5A,5B,6,7,8</p> <p>Section 25.0 :<br/>Max. ±15 kV</p> | BS-5 | N                |

# *Korea Laboratory Accreditation Scheme*

No. KT009

| Test method | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                      | Test range | Site | Field<br>testing |
|-------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
|             |                        | Proofness<br>Section 10.0<br>Waterproofness<br>Section 11.0 Fluids<br>Susceptibility<br>Section 12.0 Sand and<br>Dust<br>Section 13.0 Fungus<br>Resistance<br>Section 14.0 Salt Spray<br>Section 16.0 Power<br>Input<br>Section 23.0 Lightning<br>Direct Effects<br>Section 24.0 Icing<br>Section 26.0 Fire,<br>Flammability |            |      |                  |

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| Test method       | Materials/<br>Products               | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Site | Field<br>testing |
|-------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| RTCA DO-160G:2010 | Wired/wireless communication devices | <p>Environmental Conditions and Test Procedures for Airborne Equipment</p> <p>Section 15.0 Magnetic Effect</p> <p>Section 16.0 Power Input</p> <p>Section 17.0 Voltage Spike</p> <p>Section 18.0 Audio Frequency Conducted Susceptibility -Power Inputs</p> <p>Section 19.0 Induced Signal Susceptibility</p> <p>Section 20.0 Radio Frequency Susceptibility (Radiated and Conducted)</p> <p>&lt;Exception&gt;<br/>-20.6 Radiated Susceptibility(RS) Test: Alternative Procedure -Reverberation Chamber</p> <p>Section 21.0 Emission of Radio Frequency Energy</p> <p>Section 22.0 Lightning Induced Transient Susceptibility</p> <p>Section 25.0 Electrostatic Discharge (ESD)</p> <p>&lt;Exception&gt;<br/>Section 1.0 Purpose and Applicability<br/>Section 2.0 Definitions of Terms - General<br/>Section 3.0 Conditions of Tests<br/>Section 4.0 Temperature and Altitude<br/>Section 5.0 Temperature Variation<br/>Section 6.0 Humidity<br/>Section 7.0 Operational Shocks and Crash Safety</p> | <p>Section 15.0 :<br/>Dc : 1 degree</p> <p>Section 16.0 :<br/>AC : 115 V@ (360-800) Hz, 230 V@ (360-800) Hz<br/>DC : 14 V, 28 V, 270 V</p> <p>Section 17.0 :<br/>Category A: 600 V<br/>Category B: 2 × V (AC RMS AND/OR DC, OR 200 V Whichever Is Less)</p> <p>Section 18.0 :<br/>10 Hz ~ 148.593 6 kHz (Max. 16 Vp-p)</p> <p>Section 19.0 :<br/>350 Hz ~ 32 kHz (Max. 120 A-m, 5 400 V-m)</p> <p>Section 20.0 :<br/>CS: 10 kHz ~ 400 MHz<br/>RS: 100 MHz ~ 18 GHz (Max Peak Level 3 600 V/m, Max Average Level 490 V/m)</p> <p>Section 21.0 :<br/>CE: 150 kHz ~ 152 MHz<br/>RE: 100 MHz ~ 6 GHz</p> <p>Section 22.0 :<br/>Waveform: 1,2,3,4,5A,5B,6,7,8</p> <p>Section 25.0 :<br/>Max. ±15 kV</p> | BS-5 | N                |

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| Test method           | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                         | Test range                                                                     | Site | Field<br>testing |
|-----------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------|------------------|
|                       |                                                                                         | Section 8.0 Vibration<br>Section 9.0 Explosion<br>Proofness<br>Section 10.0 Water<br>proofness<br>Section 11.0 Fluids<br>Susceptibility<br>Section 12.0 Sand and<br>Dust<br>Section 13.0 Fungus<br>Resistance<br>Section 14.0 Salt Spray<br>Section 16.0 Power<br>Input<br>Section 23.0 Lightning<br>Direct Effects<br>Section 24.0 Icing<br>Section 26.0 Fire,<br>Flammability |                                                                                |      |                  |
| RTQ 427:2014          | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Technical Regulation for<br>Quality                                                                                                                                                                                                                                                                                                                                             | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz                                   | BS-2 | N                |
| SAE<br>ARP5583A:2010  | Wired/wireless<br>communicatio<br>n devices                                             | (R) Guide to<br>Certification of Aircraft<br>in a High-Intensity<br>Radiated Field (HIRF)<br>Environment<br>6.3 Aircraft High-Level<br>Tests(Step 9)<br><Exception><br>6.3.4 High Level Direct<br>Drive Test Methodology<br>6.3.6 High-Level Tests in<br>a Reverberation<br>Chamber                                                                                             | 10 kHz ~ 40 GHz<br>(Max Peak Level 3 600<br>V/m, Max Average<br>Level 490 V/m) | BS-5 | N                |
| SAE J<br>1113/11:2012 | Wired/wireless<br>communicatio<br>n devices                                             | Immunity to Conducted<br>Transients on Power<br>Leads                                                                                                                                                                                                                                                                                                                           | TI : -600 V ~ 200 V                                                            | BS-2 | N                |
| SAE J<br>1113/12:2006 | Wired/wireless<br>communicatio<br>n devices                                             | Electrical Interference by<br>Conduction and<br>Coupling - Capacitive<br>and Inductive Coupling<br>via Lines other than<br>Supply Lines                                                                                                                                                                                                                                         | TI : -80 V ~ 80 V                                                              | BS-2 | N                |
| SAE J<br>1113/13:2004 | Wired/wireless<br>communicatio<br>n devices                                             | Electromagnetic<br>Compatibility<br>Measurement Procedure<br>for Vehicle Components<br>- Part 13 : Immunity to<br>Electrostatic Discharge                                                                                                                                                                                                                                       | ESD : ±25 kV                                                                   | BS-2 | N                |

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| Test method           | Materials/<br>Products                  | Standard<br>designation                                                                                                                                                                      | Test range                                        | Site | Field<br>testing |
|-----------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------|------------------|
| SAE J<br>1113/21:2005 | Wired/wireless<br>communication devices | Electromagnetic<br>Compatibility<br>Measurement Procedure<br>for Vehicle Components<br>- Part 21 : Immunity to<br>Electromagnetic Fields,<br>30 MHz to 18 GHz,<br>Absorber-Lined<br>Chamber  | Freq. : 30 MHz ~ 18<br>GHz<br>E/F : 200 V/m       | BS-2 | N                |
| SAE J<br>1113/22:2003 | Wired/wireless<br>communication devices | Electromagnetic<br>Compatibility<br>Measurement Procedure<br>for Vehicle Components<br>- Part 22 : Immunity to<br>Radiated Magnetic<br>Fields                                                | Freq. : 15 Hz ~ 30 kHz<br>MFS : 80                | BS-2 | N                |
| SAE J<br>1113/26:2014 | Wired/wireless<br>communication devices | Electromagnetic<br>Compatibility<br>Measurement Procedure<br>for Vehicle Components<br>- Immunity to AC Power<br>Line Electric Fields                                                        | E/F : 15 kV/m                                     | BS-2 | N                |
| SAE J<br>1113/27:2012 | Wired/wireless<br>communication devices | Electromagnetic<br>Compatibility<br>Measurements<br>Procedure for vehicle<br>Components - Part 27<br>: Immunity to Radiated<br>Electromagnetic fields -<br>Mode Stir Reverberation<br>Method | Freq. : 500 MHz ~ 2<br>GHz<br>E/F : 150 V/m       | BS-2 | N                |
| SAE J<br>1113/2:2004  | Wired/wireless<br>communication devices | Electromagnetic<br>Compatibility<br>Measurement<br>Procedures and Limits<br>for Vehicle Components<br>(Except Aircraft) -<br>Conducted Immunity,<br>15 Hz to 250 kHz - All<br>Leads          | Freq. : 15 Hz ~ 250 kHz<br>Voltage : 3 Vpp        | BS-2 | N                |
| SAE J<br>1113/3:2006  | Wired/wireless<br>communication devices | Conducted Immunity,<br>250 kHz to 400 MHz,<br>Direct Injection of Radio<br>Frequency (RF) Power                                                                                              | Freq. : 250 kHz ~ 400<br>MHz<br>Power : 0.5 W     | BS-2 | N                |
| SAE J<br>1113/41:2006 | Wired/wireless<br>communication devices | Limits and Methods of<br>Measurement of Radio<br>Disturbance<br>Characteristics of<br>Components and<br>Modules for the<br>Protection of Receivers<br>used on Board Vehicles                 | CE : 150 kHz ~ 108<br>MHz<br>RE : 150 kHz ~ 1 GHz | BS-2 | N                |

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| Test method           | Materials/<br>Products                                           | Standard<br>designation                                                                                                                                     | Test range                                                                                                                                                                                          | Site | Field<br>testing |
|-----------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SAE J<br>1113/42:2006 | Wired/wireless<br>communication devices                          | Electromagnetic<br>Compatibility -<br>Component Test<br>Procedure - Part 42 :<br>Conducted Transient<br>Emissions                                           | TE : 1 000 ns ~ 1 000<br>ms                                                                                                                                                                         | BS-2 | N                |
| SAE J<br>1113/4:2014  | Wired/wireless<br>communication devices                          | Immunity to Radiated<br>Electromagnetic Fields -<br>Bulk Current Injection<br>(BCI) Method                                                                  | Freq. : 1 MHz ~ 400<br>MHz<br>Current : 200 mA                                                                                                                                                      | BS-2 | N                |
| SANS 211:2010         | Electrical<br>machinery for<br>industries,<br>Medical<br>devices | Industrial, scientific and<br>medical equipment -<br>Radio-frequency<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement            | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz                                                                                                   | BS-2 | N                |
| SANS 211:2010         | Measuring<br>instruments                                         | Industrial, scientific and<br>medical equipment -<br>Radio-frequency<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement            | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz                                                                                                   | BS-1 | N                |
| SANS 213:2011         | Wired/wireless<br>communication devices                          | Sound and television<br>broadcast receivers and<br>associated equipment -<br>Radio disturbance<br>characteristics - Limits<br>and methods of<br>measurement | CE(mains) : 150 kHz ~<br>30 MHz<br>CE(antenna port) : 30<br>MHz ~ 2.15 GHz<br>CE(RF output port) : 30<br>MHz ~ 2.15 GHz<br>DP : 30 MHz ~ 300<br>MHz<br>RE : 30 MHz ~ 1 GHz<br>RP : 0.9 GHz ~ 18 GHz | BS-2 | N                |
| SANS 214-1:2020       | Electrical<br>machinery for<br>households                        | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus Part 1:<br>Emission              | RE: 9 kHz ~ 6 GHz<br>CE: 9 kHz ~ 30 MHz<br>DCE: 150 kHz ~ 30<br>MHz<br>MFE: 9 kHz ~ 30 MHz<br>DP: 30 MHz ~ 300<br>MHz                                                                               | BS-2 | N                |
| SANS 214-1:2020       | Electrical<br>machinery for<br>households                        | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus Part 1:<br>Emission              | RE : 9 kHz ~ 6 GHz<br>CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>MFE : 9 kHz ~ 30 MHz<br>DP : 30 MHz ~ 300<br>MHz                                                                          | BS-1 | N                |



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| Test method     | Materials/<br>Products                      | Standard<br>designation                                                                                                                                                                                                                                                           | Test range                                                                                                                                                    | Site | Field<br>testing |
|-----------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SANS 214-2:2009 | Electrical<br>machinery for<br>households   | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus Part 2:<br>Immunity - Product<br>family standard                                                                                                       | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 230<br>MHz<br>V-DIP : $\leq 16$ A per<br>phase            | BS-2 | N                |
| SANS 214-2:2009 | Electrical<br>machinery for<br>households   | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus Part 2:<br>Immunity - Product<br>family standard                                                                                                       | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 230<br>MHz<br>V-DIP : 16 A per phase<br>or less           | BS-1 | N                |
| SANS 215:2019   | Lighting<br>devices                         | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><Exception><br>4.5.2 Table 8 - Radiated<br>disturbance limits in the<br>frequency range 9 kHz<br>to 30 MHz (loop<br>diameter : 3 m and 4 m) | RE : 9 kHz ~ 1 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz                                                                                             | BS-2 | N                |
| SANS 215:2019   | Lighting<br>devices                         | Limits and methods of<br>measurement of radio<br>disturbance<br>characteristics of<br>electrical lighting and<br>similar equipment<br><exception><br>4.5.2 Table 8 - Radiated<br>disturbance limits in the<br>frequency range 9 kHz<br>to 30 MHz (loop<br>diameter : 3 m and 4 m) | RE : 9 kHz ~ 1 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz                                                                                             | BS-1 | N                |
| SANS 222:2009   | Wired/wireless<br>communicatio<br>n devices | Information technology<br>equipment - Radio<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement                                                                                                                                                           | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                  | BS-2 | N                |
| SANS 224:2010   | Wired/wireless<br>communicatio<br>n devices | Information technology<br>equipment - Immunity<br>characteristics - Limits<br>and methods of<br>measurement                                                                                                                                                                       | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 4$ kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 1 A/m<br>V-DIP : $\leq 16$ A per<br>phase | BS-2 | N                |

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| Test method              | Materials/<br>Products                                                                  | Standard<br>designation                                                                                                                                                                                                                                                      | Test range                                                                                                                                                                                                               | Site | Field<br>testing |
|--------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SANS 225:2019            | Wired/wireless<br>communication<br>devices                                              | Vehicles, boats and<br>internal combustion<br>engines - Radio<br>disturbance<br>characteristics - Limits<br>and methods of<br>measurement for the<br>protection of on-board<br>receivers                                                                                     | CE : 150 kHz ~ 108<br>MHz<br>RE : 150 kHz ~ 2.5 GHz                                                                                                                                                                      | BS-2 | N                |
| SANS 232:2017            | Wired/wireless<br>communication<br>devices                                              | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Emission requirements                                                                                                                                                                                       | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                                                                             | BS-1 | N                |
| SANS 235:2018            | Wired/wireless<br>communication<br>devices                                              | Electromagnetic<br>compatibility of<br>multimedia equipment -<br>Immunity requirements                                                                                                                                                                                       | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 5 GHz<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 4$ kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 1 A/m<br>V-DIP : 16 A per phase<br>or less                                                           | BS-1 | N                |
| SANS 60601-1-<br>2:2018  | Medical<br>devices                                                                      | Medical electrical<br>equipment Part 1-2:<br>General requirements<br>for basic safety and<br>essential performance -<br>Collateral standard:<br>Electromagnetic<br>compatibility -<br>Requirements and tests                                                                 | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 6 V<br>MFS : 30 A/m<br>V-DIP : $\leq 75$ A    | BS-2 | N                |
| SANS 60601-1-<br>2:2018  | Medical<br>devices                                                                      | Medical electrical<br>equipment Part 1-2:<br>General requirements<br>for basic safety and<br>essential performance -<br>Collateral standard:<br>Electromagnetic<br>compatibility -<br>Requirements and tests                                                                 | RE : 150 kHz ~ 18 GHz<br>CE : 9 kHz ~ 30 MHz<br>ESD : $\pm 15$ kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80<br>MHz, 6 V<br>MFS : 30 A/m<br>16 A per phase or less | BS-1 | N                |
| SANS 61000-3-<br>11:2003 | Electrical<br>machinery for<br>households,<br>Electrical<br>machinery for<br>industries | Electromagnetic<br>compatibility (EMC) Part<br>3-11: Limits - Limitation<br>of voltage changes,<br>voltage fluctuations and<br>flicker in public low-<br>voltage supply systems -<br>Equipment with rated<br>current $\leq 75$ A and<br>subject to conditional<br>connection | 75 A or less<br>Pst $< 1.0$<br>Plt $< 0.65$<br>d(t) $< 3.3$ %<br>dc $< 3.3$ %<br>dmax : a) $< 4$ %, b) $< 6$<br>%, c) $< 7$ %                                                                                            | BS-2 | N                |

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| Test method          | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                       | Test range                                                                                                                           | Site | Field<br>testing |
|----------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SANS 61000-3-11:2003 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current $\leq 75$ A and subject to conditional connection                 | 75 A or less per phase<br>Pst $< 1.0$<br>Plt $< 0.65$<br>d(t) $< 3.3$ %<br>dc $< 3.3$ %<br>dmax : a) $< 4$ %, b) $< 6$ %, c) $< 7$ % | BS-1 | N                |
| SANS 61000-3-12:2012 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current $> 16$ A and $\leq 75$ A per phase                                                      | AC input current : Max. 75 A (per phase)                                                                                             | BS-2 | N                |
| SANS 61000-3-12:2012 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current $> 16$ A and $\leq 75$ A per phase                                                      | AC input current : Max. 75 A (per phase)                                                                                             | BS-1 | N                |
| SANS 61000-3-2:2009  | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)                                                                                                                  | 16 A or less                                                                                                                         | BS-2 | N                |
| SANS 61000-3-2:2009  | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)                                                                                                                  | 16 A or less per phase                                                                                                               | BS-1 | N                |
| SANS 61000-3-3:2009  | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection | 16 A or less<br>Pst $< 1.0$<br>Plt $< 0.65$<br>d(t) $< 3.3$ %<br>dc $< 3.3$ %<br>dmax : a) $< 4$ %, b) $< 6$ %, c) $< 7$ %           | BS-2 | N                |

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| Test method          | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                       | Test range                                                                                                                                                                          | Site | Field<br>testing |
|----------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SANS 61000-3-3:2009  | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection | 16A or less per phase<br>Pst $< 1.0$<br>Plt $< 0.65$<br>d(t) $< 3.3$ %<br>dc $< 3.3$ %<br>dmax : a) $< 4$ %, b) $< 6$ %, c) $< 7$ %                                                 | BS-1 | N                |
| SANS 61000-4-11:2005 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests                                                                                                   | 16 A or less per phase<br>0 % during 1/2 cycle<br>0 % during 1 cycle<br>40 % during 10/12 cycle<br>70 % during 25/30 cycle<br>80 % during 250/300 cycle<br>0 % during 250/300 cycle | BS-2 | N                |
| SANS 61000-4-11:2005 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests                                                                                                   | 16 A or less per phase<br>0 % during 1/2 cycle<br>0 % during 1 cycle<br>40 % during 10/12 cycle<br>70 % during 25/30 cycle<br>80 % during 250/300 cycle<br>0 % during 250/300 cycle | BS-1 | N                |
| SANS 61000-4-12:2007 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-12: Testing and measurement techniques - Ring wave immunity test                                                                                                                                                   | Voltage oscillation frequency : 100 kHz $\pm 10$ %<br>Open-circuit voltage : 250 to 4 kV<br>Short-circuit Current : 333 A $\pm 10$ % 12 $\Omega$                                    | BS-2 | N                |
| SANS 61000-4-13:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests                                                                  | 9th harmonic<br>Frequency range: 2 kHz / 50 Hz, 2.4 kHz / 60 Hz                                                                                                                     | BS-2 | N                |

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| Test method          | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                      | Test range                                                     | Site | Field<br>testing |
|----------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------|------------------|
| SANS 61000-4-13:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests | 9th harmonic<br>Frequency range: 2 kHz / 50 Hz 2.4 kHz / 60 Hz | BS-1 | N                |
| SANS 61000-4-14:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-14: Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase          | Test level: U(nom)<br>U(nom)-10 % U(nom)<br>U(nom)+10 % U(nom) | BS-2 | N                |
| SANS 61000-4-14:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-14: Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase          | Test level: U(nom)<br>U(nom)-10 % U(nom)<br>U(nom)+10 % U(nom) | BS-1 | N                |
| SANS 61000-4-16:2011 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz          | Frequency range : 0 Hz ~ 150 kHz                               | BS-2 | N                |
| SANS 61000-4-17:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test                                                            | Output voltage range up to 360 V                               | BS-2 | N                |
| SANS 61000-4-17:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test                                                            | Output voltage range up to 360 V                               | BS-1 | N                |

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| Test method          | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                       | Test range                               | Site | Field<br>testing |
|----------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------|------------------|
| SANS 61000-4-27:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-27: Testing and measurement techniques - Unbalance, immunity test for equipment with input current not exceeding 16 A per phase                    | AC input current : Max. 16 A (per phase) | BS-2 | N                |
| SANS 61000-4-28:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase | AC input current : Max. 16 A (per phase) | BS-2 | N                |
| SANS 61000-4-29:2005 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests          | DC input Voltage : 600 V                 | BS-2 | N                |
| SANS 61000-4-2:2009  | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test                                                                      | Max. $\pm 30$ kV, 150 pF / 330 $\Omega$  | BS-2 | N                |
| SANS 61000-4-2:2009  | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test                                                                      | Max. $\pm 30$ kV, 150 pF / 330 $\Omega$  | BS-1 | N                |
| SANS 61000-4-3:2008  | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test                                             | RS : 80 MHz ~ 6 GHz                      | BS-2 | N                |



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| Test method         | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                  | Test range                                              | Site | Field<br>testing |
|---------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------|------------------|
| SANS 61000-4-3:2008 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test        | RS : 80 MHz ~ 6 GHz                                     | BS-1 | N                |
| SANS 61000-4-4:2011 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test                         | EFT : $\pm 4$ kV                                        | BS-2 | N                |
| SANS 61000-4-4:2011 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test                         | EFT : Max $\pm 4$ kV                                    | BS-1 | N                |
| SANS 61000-4-5:2006 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test                                                   | SURGE : $\pm 6$ kV                                      | BS-2 | N                |
| SANS 61000-4-5:2006 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test                                                   | SURGE : Max $\pm 6$ kV                                  | BS-1 | N                |
| SANS 61000-4-6:2017 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields | Frequency range : 150 kHz ~ 80 MHz<br>Voltage : 10 Vrms | BS-2 | N                |
| SANS 61000-4-6:2017 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields | Frequency range : 150 kHz ~ 80 MHz<br>Voltage : 10 Vrms | BS-1 | N                |



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| Test method         | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                  | Test range                                                                                                                                     | Site | Field<br>testing |
|---------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SANS 61000-4-8:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test          | M/F : 100 A/m                                                                                                                                  | BS-2 | N                |
| SANS 61000-4-8:2009 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test          | M/F : Max 100 A/m                                                                                                                              | BS-1 | N                |
| SANS 61000-4-9:2003 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-9: Testing and measurement techniques - Pulse magnetic field immunity test                    | Output current range :<br>100 A/m ~ 1 000 A/m                                                                                                  | BS-2 | N                |
| SANS 61000-4-9:2003 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 4-9: Testing and measurement techniques - Pulse magnetic field immunity test                    | Output current range :<br>100 A/m ~ 1 000 A/m                                                                                                  | BS-1 | N                |
| SANS 61000-6-1:2005 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments | ESD : ±8 kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 3 A/m<br>V-DIP : ≤16 A per phase        | BS-2 | N                |
| SANS 61000-6-1:2005 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments | ESD : ±8 kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : ±1 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 3 A/m<br>V-DIP : 16 A per phase or less | BS-1 | N                |
| SANS 61000-6-2:2005 | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity for industrial environments                                   | ESD : ±8 kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 30 A/m<br>V-DIP : ≤16 A per phase       | BS-2 | N                |

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| Test method         | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                           | Test range                                                                                                                                                                                                                                   | Site | Field<br>testing |
|---------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SANS 61000-6-2:2005 | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity for industrial environments                                            | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 30 A/m<br>V-DIP : 16 A per phase or less                                                                               | BS-1 | N                |
| SANS 61000-6-3:2011 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments | RE : 30 MHz ~ 1 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                                                                                                 | BS-2 | N                |
| SANS 61000-6-3:2011 | Electrical machinery for households,<br>Electrical machinery for industries | Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments | RE : 30 MHz ~ 1 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                                                                                                 | BS-1 | N                |
| SANS 61000-6-4:2011 | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments                                   | RE : 30 MHz ~ 1 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                                                                                                 | BS-2 | N                |
| SANS 61000-6-4:2011 | Electrical machinery for industries                                         | Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments                                   | RE : 30 MHz ~ 1 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                                                                                                                 | BS-1 | N                |
| SANS 61326-1:2007   | Measuring instruments                                                       | Electrical equipment for measurement, control and laboratory use - EMC requirements Part 1: General requirements                                  | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : Max $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MF : 30 A/m<br>V-DIP : $\leq 16$ A per phase | BS-2 | N                |

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| Test method         | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                               | Test range                                                                                                                                                                                                                                    | Site | Field<br>testing |
|---------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SANS 61326-1:2007   | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements Part 1: General requirements                                                                                                                                                                      | RE : 150 kHz ~ 18 GHz<br>CE : 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD : Max $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz<br>EFT : $\pm 2$ kV<br>Surge : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MF : 30 A/m<br>V-DIP : 16 A per phase or less | BS-1 | N                |
| SANS 61326-2-3:2009 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning Use with: SANS 61326-1:2000 | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 3 GHz<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A per phase                                                                                   | BS-2 | N                |
| SANS 61326-2-3:2009 | Measuring instruments  | Electrical equipment for measurement, control and laboratory use - EMC requirements Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning Use with: SANS 61326-1:2000 | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 3 GHz<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A per phase                                                                                   | BS-1 | N                |
| SANS 61547:2021     | Lighting devices       | Equipment for general lighting purposes - EMC immunity requirements                                                                                                                                                                                                                   | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 3 A/m<br>V-DIP : $\leq 16$ A per phase                                                                                    | BS-2 | N                |
| SANS 61547:2021     | Lighting devices       | Equipment for general lighting purposes - EMC immunity requirements                                                                                                                                                                                                                   | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 3 A/m<br>V-DIP : 16 A per phase or less                                                                                   | BS-1 | N                |

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| Test method             | Materials/<br>Products                                                   | Standard<br>designation                                                                                                    | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Site | Field<br>testing |
|-------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SANS 62040-2:2007       | Electrical machinery for industries                                      | Uninterruptible power systems (UPS) Part 2: Electromagnetic compatibility (EMC) requirements                               | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : $\leq 16$ A per phase                                                                                                                                                                                                                                                                      | BS-2 | N                |
| SANS 62040-2:2007       | Electrical machinery for industries                                      | Uninterruptible power systems (UPS) Part 2: Electromagnetic compatibility (EMC) requirements                               | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 1 GHz<br>ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : $\pm 2$ kV<br>SURGE : $\pm 2$ kV<br>CS : 150 kHz ~ 80 MHz<br>MFS : 30 A/m<br>V-DIP : 16 A per phase or less                                                                                                                                                                                                                                                                     | BS-1 | N                |
| SANS 62233:2006         | Electrical machinery for households                                      | Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure | Frequency range : 1 Hz ~ 400 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BS-2 | N                |
| SANS 62233:2006         | Electrical machinery for households, Electrical machinery for industries | Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure | Frequency range : 1 Hz ~ 400 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BS-1 | N                |
| SPS-KEMC 1120-0579:2018 | Electrical machinery for industries                                      | Digital protective relay Clause 6.4 : Electromagnetic compatibility test                                                   | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : max. $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz, Max. 10 V/m<br>EFT : Max. $\pm 4$ kV<br>Surge : Max. $\pm 4$ kV<br>CS : 150 kHz ~ 80 MHz, Max. 10 V<br>MFS : Max. 300 A/m<br>V-DIP : 0 %, 300 cycle (AC), 5 s (DC)<br>0 %, 0.5 ~ 25 cycle (AC), 10 ms ~ 1 000 ms (DC)<br>40 %, 12 cycle (AC), 200 ms (DC)<br>70 %, 30 cycle (AC), 500 ms (DC)<br>15 % of Rated DC , 100/120 Hz<br>DOW : max. $\pm 2.5$ kV<br>Low CS : max. 300 V | BS-2 | N                |

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| Test method              | Materials/<br>Products               | Standard<br>designation                                                                                                                           | Test range                                                                                                                                                | Site | Field<br>testing |
|--------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SPS-SGSF-025-4-1972:2019 | Electrical machinery for industries  | General performance requirements of PCS(Power Conversion System) for electrical energy storage system 7.5 EMC(ElectroMagnetic Compatibility) Test | CE: 150 kHz ~ 30 MHz<br>RE: 30 MHz ~ 1 GHz<br>ESD: ±15 kV<br>RS: 80 MHz ~ 2.7 GHz<br>EFT: ±4 kV<br>Surge: ±4 kV<br>CS: 150 kHz ~ 80 MHz<br>MFS: 1,000 A/m | BS-2 | N                |
| TCVN 7186:2018           | Lighting devices                     | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment                               | RE : 9 kHz ~ 300 MHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz                                                                                       | BS-6 | N                |
| TCVN 7186:2018           | Lighting devices                     | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment                               | RE : 9 kHz ~ 300 MHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz<br>IL : 150 kHz ~ 1 605 kHz                                                           | BS-2 | N                |
| TCVN 7186:2018           | Lighting devices                     | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment                               | RE : 9 kHz ~ 1 GHz<br>CE : 9 kHz ~ 30 MHz<br>MFE : 9 kHz ~ 30 MHz                                                                                         | BS-1 | N                |
| TCVN 7189:2009           | Wired/wireless communication devices | Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement                                          | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                              | BS-2 | N                |
| TCVN 7189:2009           | Wired/wireless communication devices | Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement                                          | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                              | BS-6 | N                |
| TCVN 7189:2009           | Wired/wireless communication devices | Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement                                          | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz                                                                                                              | BS-1 | N                |
| TCVN 7317:2003           | Wired/wireless communication devices | Information technology equipment - Immunity characteristics - Limits and methods of measurement                                                   | ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : ±1 kV<br>SURGE : ±4 kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 1 A/m<br>V-DIP ≤16 A                                 | BS-2 | N                |

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| Test method          | Materials/<br>Products                     | Standard<br>designation                                                                                                                        | Test range                                                                                                                                                                                                | Site | Field<br>testing |
|----------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| TCVN 7317:2003       | Wired/wireless<br>communication<br>devices | Information technology<br>equipment - Immunity<br>characteristics- Limits<br>and methods of<br>measurement                                     | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m<br>EFT : $\pm 1$ kV<br>Surge : $\pm 4$ kV<br>CS : 150 kHz ~ 80<br>MHz, 3 V<br>M/F : 1 A/m<br>V-DIP : 0 %, 0.5 cycle<br>70 %, 25 cycle<br>0 %, 250 cycle | BS-6 | N                |
| TCVN 7317:2003       | Wired/wireless<br>communication<br>devices | Information technology<br>equipment - Immunity<br>characteristics- Limits<br>and methods of<br>measurement                                     | ESD : $\pm 8$ kV<br>RS : 80 MHz ~ 1 GHz<br>EFT : $\pm 1$ kV<br>SURGE : $\pm 4$ kV<br>CS : 150 kHz ~ 80 MHz<br>M/F : 1 A/m<br>V-DIP $\leq 16$ A                                                            | BS-1 | N                |
| TCVN 7492-<br>1:2018 | Electrical<br>machinery for<br>households  | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus Part 1:<br>Emission | RE : 30 MHz ~ 1 GHz<br>CE : 148.5 kHz ~ 30<br>MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>DP : 30 MHz ~ 1 GHz                                                                                                     | BS-2 | N                |
| TCVN 7492-<br>1:2018 | Electrical<br>machinery for<br>households  | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus Part 1:<br>Emission | RE : 30 MHz ~ 1 GHz<br>CE : 148.5 kHz ~ 30<br>MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>DP : 30 MHz ~ 1 GHz                                                                                                     | BS-6 | N                |
| TCVN 7492-<br>1:2018 | Electrical<br>machinery for<br>households  | Electromagnetic<br>compatibility -<br>Requirements for<br>household appliances,<br>electric tools and similar<br>apparatus Part 1:<br>Emission | RE : 30 MHz ~ 1 GHz<br>CE : 148.5 kHz ~ 30<br>MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>DP : 30 MHz ~ 1 GHz                                                                                                     | BS-1 | N                |



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| Test method                                                                                 | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Test range                                                                                                                                                   | Site | Field<br>testing |
|---------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| U.S. Nuclear<br>Regulatory<br>Commission,<br>Regulatory Guide<br>1.180, Revision 2,<br>2019 | Electrical<br>machinery for<br>industries | Guidelines for<br>evaluating<br>electromagnetic and<br>radio-frequency<br>interference in safety-<br>related instrumentation<br>and control systems :<br>3.1 CE101-Conducted<br>emissions, Low<br>Frequency<br>3.2 CE102-Conducted<br>emissions, High<br>Frequency<br>3.3 RE101-Radiated<br>emissions, Magnetic<br>Field<br>3.4 RE102-Radiated<br>emissions, Electric Field<br>3.5 IEC Emissions Tests<br>4.1.1 CS101-Conducted<br>susceptibility, Low<br>Frequency<br>4.1.2 CS114-Conducted<br>susceptibility, High<br>Frequency<br>4.1.3 IEC Conducted<br>Susceptibility Tests -<br>Power Leads<br>4.2 EMI/RFI Conducted<br>Susceptibility - Signal<br>4.3.1 RS101-Radiated<br>susceptibility, Magnetic<br>Field<br>4.3.2 RS103-Radiated<br>susceptibility, Electric<br>Field<br>4.3.3 IEC Radiated<br>Susceptibility Tests<br>5.1 IEEE C62.41 Ring<br>wave and IEC 61000-4-<br>12<br>5.2 IEEE C62.41<br>Combination wave and<br>IEC 61000-4-5<br>5.3 IEEE C62.41<br>Electrically Fast<br>Transients and IEC<br>61000-4-4<br>6. Electrostatic<br>Discharge Testing | CE, CS : Max. 1 GHz<br>RE, RS : Max. 10 GHz<br>Electric field : Max. 10<br>V/m<br>Magnetic field : Max.<br>183 dBpT<br>SWC : Max. ±4 kV<br>ESD : Max. ±15 kV | BS-2 | N                |
| KATS Notice<br>No.2009-<br>746(12.01.2009.)                                                 | Electrical<br>machinery for<br>households | Quality-certification<br>standard for a<br>household cleaning<br>robot QCR-1A001<br>6.5 Electromagnetic<br>compatibility (EMC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RE : 30 MHz ~ 1 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 1 GHz,<br>3 V/m                                                                                          | BS-2 | N                |



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| Test method                                     | Materials/<br>Products                     | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Test range                                                                                                                                                                                                                                                                                              | Site | Field<br>testing |
|-------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| RRA Notification<br>No. 2021-24<br>(10.12.2021) | Wired/wireless<br>communication<br>devices | RRA Notification -<br>Safety Evaluate standard<br>and<br>Method for High Power<br>&<br>Leakage EMC                                                                                                                                                                                                                                                                                                                                                                                                                          | Standard and Method<br>for Protection<br>Performance(Radiation)<br>: 10kHz ~ 18 GHz<br>Standard and Method<br>for Protection<br>Performance(Conductio<br>n)<br>- Pulsed Current<br>Injection(PCI) : Short<br>Pulse 5 kA MAX,<br>Intermediate Pulse 250<br>A MAX<br>- Insertion Loss : 10<br>kHz ~ 18GHz | BS-2 | Y                |
| MOTIE Notice<br>No.2018-<br>206(11.20.2018.)    | Measuring<br>instruments                   | Technical standards for<br>electricity meters<br>1-1 Normal<br>requirements for<br>electricity meters<br>9.2 electromagnetic<br>compatibility : EMC<br>1-2 Type approval<br>standard for AC induced<br>electricity meters<br>9.2 electromagnetic<br>compatibility : EMC<br>1-3 Type approval<br>standard for AC<br>electronic electricity<br>meters<br>9.2 electromagnetic<br>compatibility : EMC<br>1-4 Type approval<br>standard for DC<br>electronic electricity<br>meters<br>9.2 electromagnetic<br>compatibility : EMC | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±15 kV<br>RS : 80 MHz ~ 2 GHz,<br>30 V/m<br>EFT : ±4 kV<br>Surge : ±4 kV<br>Ring wave : ±2.5 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 0.5 mT<br>V-DIP : ≤75 A                                                                                | BS-2 | N                |
| MOTIE Notice<br>No.2020-<br>017(02.19.2020.)    | Electrical<br>machinery for<br>industries  | Electric vehicle chargers<br>technical standards<br>8.2.1 Electromagnetic<br>Compatibility                                                                                                                                                                                                                                                                                                                                                                                                                                  | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : ≤75 A                                                                                                                   | BS-2 | N                |

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| Test method                                  | Materials/<br>Products                    | Standard<br>designation                                                                    | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                          | Site | Field<br>testing |
|----------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MOTIE Notice<br>No.2020-<br>017(02.19.2020.) | Electrical<br>machinery for<br>industries | Electric vehicle chargers<br>technical standards<br>8.2.1 Electromagnetic<br>Compatibility | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 30 A/m<br>V-DIP : 0 %, 1 cycle<br>40 %, 12 cycle<br>70 %, 30 cycle<br>0 %, 300 cycle                                                                                                                                                                                       | BS-6 | N                |
| MOTIE Notice<br>No.2020-<br>230(12.28.2020.) | Measuring<br>instruments                  | Watt-hour meters<br>technical standards<br>9.2 electromagnetic<br>compatibility : EMC      | CE : 150 kHz ~ 30 MHz<br>RE : 30 MHz ~ 6 GHz<br>ESD : ±15 kV<br>RS : 80 MHz ~ 2 GHz,<br>30 V/m<br>EFT : ±4 kV<br>Surge : ±4 kV<br>Ringwave : ±2.5 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>MFS : 0.5 mT<br>V-DIP : 0 %, 1 cycle<br>40 %, 12 cycle<br>70 %, 30 cycle<br>0 %, 300 cycle                                                                                                                                                                | BS-6 | N                |
| MOTIE Notice<br>No.2022-<br>164(09.29.2022.) | Electrical<br>machinery for<br>industries | Electric vehicle chargers<br>technical standards<br>8.2.1 Electromagnetic<br>Compatibility | RE : 2 kHz ~ 6 GHz<br>CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>Harmonic : (2-40) 고주<br>파<br>Flicker : 단상 ≤16 A<br>삼상 각 상당 ≤75 A<br>ESD : ±8 kV<br>RS : 80 MHz ~ 6 GHz,<br>10 V/m<br>EFT : ±2 kV<br>SURGE : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>M/F : 200 A/m<br>V-DIP : 0 %, 1 cycle<br>40 %, 10/12 cycles<br>(50/60) Hz<br>70 %, 25/30 cycles<br>(50/60) Hz<br>0 %, 250/300 cycles<br>(50/60) Hz<br>Transient voltage: 0~2<br>kV | BS-1 | N                |

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| Test method                                                            | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                 | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Site | Field<br>testing |
|------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MFDS Notice<br>No.2020-<br>29(05.01.2020)                              | Medical<br>devices                        | Common Standards and<br>Specifications on<br>Electromagnetic Safety<br>of Medical Devices                                                                               | RE : 150 kHz ~ 1 GHz<br>CE : 9 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30<br>MHz<br>ESD : ±8 kV<br>RS : 80 MHz ~ 2.5<br>GHz, 10 V/m<br>EFT : ±2 kV<br>Surge : ±2 kV<br>CS : 150 kHz ~ 80<br>MHz, 10 V<br>M/F : 3 A/m<br>V-DIP : < 5 %, 0.5<br>cycle<br>40 %, 5 cycle<br>70 %, 25 cycle<br>< 5 %, 300 cycle                                                                                                                                                                                  | BS-6 | N                |
| General Technical<br>Specifications of<br>KEPCO(GS-6110-<br>0039:2022) | Electrical<br>machinery for<br>industries | 154kV T/L Protection<br>Panel<br>Clause 6.2.2.(6): EMC<br>test<br>Clause 6.2.2.(7):<br>Voltage dips, short<br>interruptions and<br>voltage variations<br>immunity tests | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : max. ±8 kV<br>RS : 80 MHz ~ 2.7<br>GHz, Max. 10 V/m<br>EFT : Max. ±4 kV<br>Surge : Max. ±4 kV<br>CS : 150 kHz ~ 80<br>MHz, Max. 10 V<br>MFS : Max. 300 A/m<br>V-DIP : 0 %, 300 cycle<br>(AC), 5 s (DC)<br>0 %, 0.5 ~ 25 cycle<br>(AC), 10 ms ~ 1 000<br>ms (DC)<br>40 %, 12 cycle (AC),<br>200 ms (DC)<br>70 %, 30 cycle (AC),<br>500 ms (DC)<br>15 % of Rated DC,<br>100/120 Hz<br>DOW : max. ±4.0 kV<br>Low CS : max. 300 V | BS-2 | N                |

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| Test method                                                            | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                 | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Site | Field<br>testing |
|------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| General Technical<br>Specifications of<br>KEPCO(GS-6110-<br>0074:2022) | Electrical<br>machinery for<br>industries | 154kV Main<br>Transformer Protection<br>Panel<br>Clause 6.2.2.(6): EMC<br>test<br>Clause 6.2.2.(7):<br>Voltage dips, short<br>interruptions and<br>voltage variations<br>immunity tests | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : max. $\pm 8$ kV<br>RS : 80 MHz ~ 2.7<br>GHz, max. 10 V/m<br>EFT : max. $\pm 4$ kV<br>Surge : max. $\pm 4$ kV<br>CS : 150 kHz ~ 80<br>MHz, max. 10 V<br>MFS : max. 300 A/m<br>V-DIP : 0 %, 300 cycle<br>(AC), 5 s (DC)<br>0 %, 0.5 ~ 25 cycle<br>(AC), 10 ms ~ 1 000<br>ms (DC)<br>40 %, 12 cycle (AC),<br>200 ms(DC)<br>70 %, 30 cycle (AC),<br>500 ms(DC)<br>15 % of Rated DC,<br>100/120 Hz<br>DOW : max. $\pm 4.0$ kV<br>Low CS : max. 300 V | BS-2 | N                |
| General Technical<br>Specifications of<br>KEPCO(GS-6110-<br>0094:2022) | Electrical<br>machinery for<br>industries | 154kV Substation<br>Automation Operating<br>System<br>Clause 5.4 (5): EMC test                                                                                                          | RE : 30 MHz ~ 1 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : max. $\pm 8$ kV<br>RS : 80 MHz ~ 1.0<br>GHz, Max. 10 V/m<br>EFT : Max. $\pm 4$ kV<br>Surge : Max. $\pm 4$ kV<br>CS : 150 kHz ~ 80<br>MHz, Max. 10 V<br>MFS : Max. 1000 A/m<br>V-DIP : 0 %, 5 cycle<br>(AC), 0.05 s(DC)<br>40 %, 1 cycle(AC), 100<br>ms(DC)<br>70 %, 100 ms(DC)<br>-20 % ~ +10 %<br>Variations of Rated DC,<br>10 s<br>10 % of Rated DC,60<br>Hz<br>DOW : max. $\pm 1.5$ kV<br>Low CS : max. 30 V                                | BS-2 | N                |

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| Test method                                                            | Materials/<br>Products                    | Standard<br>designation                                                               | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                         | Site | Field<br>testing |
|------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| General Technical<br>Specifications of<br>KEPCO(GS-6110-<br>0097:2022) | Electrical<br>machinery for<br>industries | 154kV Hybrid<br>Substation Automation<br>Operating System<br>Clause 5.4 (5): EMC test | RE : 30 MHz ~ 1 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : max. ±8 kV<br>RS : 80 MHz ~ 1.0<br>GHz, Max. 10 V/m<br>EFT : Max. ±4 kV<br>Surge : Max. ±4 kV<br>CS : 150 kHz ~ 80<br>MHz, Max. 10 V<br>MFS : 1000 A/m<br>V-DIP : 0 %, 5 cycle<br>(AC), 0.05 s (DC)<br>40 %, 1 cycle (AC),<br>100 ms (DC)<br>70 %, 100 ms (DC)<br>-20 % ~ +10 %<br>Variations of Rated DC,<br>10 s<br>10 % of Rated DC, 60<br>Hz<br>DOW : max. ±1.5 kV<br>Low CS : max. 30 V | BS-2 | N                |
| General Technical<br>Specifications of<br>KEPCO(GS-6110-<br>0098:2018) | Electrical<br>machinery for<br>industries | 345kV Hybrid<br>Substation Automation<br>Operating System<br>Clause 5.4 (5): EMC test | RE : 30 MHz ~ 1 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : Max. ±8 kV<br>RS : 80 MHz ~ 1.0<br>GHz, max. 10 V/m<br>EFT : max. ±4 kV<br>Surge : max. ±4 kV<br>CS : 150 kHz ~ 80<br>MHz, max. 10 V<br>MFS : max. 1000 A/m<br>V-DIP : 0 %, 5 cycle<br>(AC), 0.05 s (DC)<br>40 % 1 cycle (AC), 100<br>ms (DC)<br>70 %, 100 ms (DC)<br>10 % of Rated DC, 60<br>Hz<br>DOW : max. ±1.5 kV<br>Low CS : max. 30 V                                                 | BS-2 | N                |

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| Test method                                                  | Materials/<br>Products              | Standard<br>designation                                                                                                                                                | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Site | Field<br>testing |
|--------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| General Technical Specifications of KEPCO(GS-6110-0265:2022) | Electrical machinery for industries | 154kV Main Transformer Protection IED Panel<br>Clause 6.2.2.(6): EMC test<br>Clause 6.2.2.(7): Voltage dips, short interruptions and voltage variations immunity tests | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : max. $\pm 8$ kV<br>RS : 80 MHz ~ 2.7 GHz, Max. 10 V/m<br>EFT : Max. $\pm 4$ kV<br>Surge : Max. $\pm 4$ kV<br>CS : 150 kHz ~ 80 MHz, Max. 10 V<br>MFS : Max. 300 A/m<br>V-DIP : 0 %, 300 cycle (AC), 5 s (DC)<br>0 %, 0.5 ~ 25 cycle (AC), 10 ms ~ 1 000 ms (DC)<br>40 %, 12 cycle (AC), 200 ms (DC)<br>70 %, 30 cycle (AC), 500 ms (DC)<br>15 % of Rated DC, 100/120 Hz<br>DOW : max. $\pm 4.0$ kV<br>Low CS : max. 300 V | BS-2 | N                |
| General Technical Specifications of KEPCO(GS-6625-0086:2020) | Electrical machinery for industries | Testing Methods of Static Meters<br>6.5 Tests for electromagnetic compatibility                                                                                        | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>ESD : Max. $\pm 15$ kV<br>RS : 80 MHz ~ 2.7 GHz, Max. 30 V/m<br>2.7 GHz ~ 6 GHz, Max. 10 V/m<br>EFT : Max. $\pm 4$ kV<br>Surge : Max. $\pm 6$ kV<br>CS : 150 kHz ~ 80 MHz, Max. 20 V<br>Ring wave : Max. 4 kV<br>Damped oscillatory wave : Max. 4 kV                                                                                                                                                                            | BS-2 | N                |

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## 03. Electrical Testing

### 03.012 Software

| Test method                                                                   | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                              | Test range | Site | Field<br>testing |
|-------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
| Cybersecurity<br>Certification Test<br>Plan for IoT<br>Devices Version<br>2.1 | Software               | Cybersecurity<br>Certification Test Plan<br>for IoT Devices                                                                                                                                                                                                                                                                                                                                                                                                          | -          | BS-1 | Y                |
| EN 50128:2011                                                                 | Software               | Railway Applications-<br>Communications,<br>signalling and<br>processing systems-<br>Software for railway<br>control and protection<br>systems<br>7.5.4.7. b),<br>Table A.12, Table A.13,<br>Table A.19, Table A.21<br>1,2,                                                                                                                                                                                                                                          | -          | BS-1 | Y                |
| EN 81-50:2020                                                                 | Software               | Safety rules for the<br>construction and<br>installation of lifts -<br>Examinations and tests<br>Part 50: Design rules,<br>calculations,<br>examinations and tests<br>of lift components<br>- 5.6 Type examination<br>of safety circuits<br>containing electronic<br>components and/or<br>programmable<br>electronic systems<br>(PESSRAL)<br>- Annex B (normative)<br>Programmable<br>electronic systems in<br>safety related<br>applications for lifts<br>(PESSRAL) | -          | BS-4 | Y                |
| ETSI EN 303 645<br>V2.1.1                                                     | Software               | Cyber Security for<br>Consumer Internet of<br>Things: Baseline<br>Requirements                                                                                                                                                                                                                                                                                                                                                                                       | -          | BS-1 | Y                |
| IEC 60335-1:2020                                                              | Software               | Household and similar<br>electrical appliances -<br>Safety - Part 1: General<br>requirements<br>Annex R Software<br>evaluation                                                                                                                                                                                                                                                                                                                                       | -          | BS-4 | Y                |



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| Test method      | Materials/<br>Products | Standard<br>designation                                                                                                                                                                             | Test range | Site | Field<br>testing |
|------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
| IEC 60730-1:2022 | Software               | Automatic electrical controls-Part1:General requirements<br>- Annex H : Requirements related to functional safety                                                                                   | -          | BS-4 | Y                |
| IEC 61508-1:2010 | Software               | Functional safety of electrical / electronic / programmable electronic safety-related systems - Part 1: General requirements                                                                        | -          | BS-4 | Y                |
| IEC 61508-2:2010 | Software               | Functional safety of electrical / electronic / programmable electronic safety - related systems - Part 2: Requirements for electrical / electronic / programmable electronic safety-related systems | -          | BS-4 | Y                |
| IEC 61508-3:2010 | Software               | Functional safety of electrical / electronic / programmable electronic safety related systems - Part 3 : Software requirements 7.4.7, 7.4.8 Table B.1, Table B.2, Table B.8 1,2,3,4,5,9             | -          | BS-1 | Y                |
| IEC 61508-3:2010 | Software               | Functional safety of electrical/electronic/pro grammable electronic safety-related systems - Part 3: Software requirements                                                                          | -          | BS-4 | Y                |
| IEC 62061:2021   | Software               | Safety of machinery - Functional safety of safety-related control systems                                                                                                                           | -          | BS-4 | Y                |
| IEC 62279:2015   | Software               | Railway Applications- Communications, signalling and processing systems- Software for railway control and protection systems 7.5.4.7 a), b), 7.5.4.8, Table A.12, Table A.13 6, Table A.19 3,4      | -          | BS-1 | Y                |

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| Test method                          | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                        | Test range | Site | Field<br>testing |
|--------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
| IEC 62304:2006                       | Software               | Medical device software<br>- Software life cycle<br>processes                                                                                                                                                                                                                  | -          | BS-1 | N                |
| IEC<br>62304:2006/AMD<br>1:2015      | Software               | Medical device software<br>- Software life cycle<br>processes                                                                                                                                                                                                                  | -          | BS-1 | N                |
| IEC 62443-2-<br>4:2015+AMD1:20<br>17 | Software               | Security for industrial<br>automation and control<br>systems - Part 2-4:<br>Security program<br>requirements for IACS<br>service providers                                                                                                                                     | -          | BS-1 | Y                |
| IEC 62443-3-<br>3:2013               | Software               | Industrial<br>communication<br>networks - Network and<br>system security - Part 3-<br>3: System security<br>requirements and<br>security levels                                                                                                                                | -          | BS-1 | Y                |
| IEC 62443-4-<br>1:2018               | Software               | Security for industrial<br>automation and control<br>systems - Part 4-1:<br>Secure product<br>development lifecycle<br>requirements                                                                                                                                            | -          | BS-1 | Y                |
| IEC 62443-4-<br>2:2019               | Software               | Security for industrial<br>automation and control<br>systems - Part 4-2:<br>Technical security<br>requirements for IACS<br>components                                                                                                                                          | -          | BS-1 | Y                |
| IEC 62619:2017                       | Software               | Secondary cells and<br>batteries containing<br>alkaline or other<br>nonacid electrolytes<br>- Safety requirements<br>for<br>secondary lithium cells<br>and batteries, for use in<br>industrial application<br>- 8. Battery system<br>safety (Considering<br>functional safety) | -          | BS-4 | Y                |

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| Test method           | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                               | Test range | Site | Field<br>testing |
|-----------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
| IEC 62619:2022        | Software               | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications<br>- 8. Battery system safety<br>(considering functional safety) | -          | BS-4 | Y                |
| IEC 62990-1:2019      | Software               | Workplace atmospheres<br>- Part 1: Gas detectors - Performance requirements of detectors for toxic gases<br>4.2.9 Software-controlled equipment<br>5.4.10 Software-controlled equipment                                                               | -          | BS-1 | Y                |
| IEC 81001-5-1:2021    | Software               | Health software and health IT systems safety, effectiveness and security Part 5-1: Security Activities in the product life cycle                                                                                                                      | -          | BS-1 | N                |
| IEC 82304-1:2016      | Software               | Health software - Part 1 : General requirements for product safety                                                                                                                                                                                    | -          | BS-1 | N                |
| IEC TR 60601-4-5:2021 | Software               | Medical electrical equipment - Part 4-5: Guidance and interpretation - Safety-related technical security specifications                                                                                                                               | -          | BS-1 | N                |
| ISO/IEC 15408-1:2009  | Software               | Information technology - Security techniques - Evaluation criteria for IT security<br>- Part 1 : Introduction and general model                                                                                                                       | -          | BS-1 | N                |
| ISO/IEC 15408-2:2008  | Software               | Information technology - Security techniques - Evaluation criteria for IT security<br>- Part 2 : Security functional components                                                                                                                       | -          | BS-1 | N                |

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|----------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
| ISO/IEC 15408-3:2008 | Software               | Information technology<br>- Security techniques -<br>Evaluation criteria for IT<br>security<br>- Part 3 : Security<br>assurance components                                     | -          | BS-1 | N                |
| ISO/IEC 18045:2008   | Software               | Information technology<br>- Security techniques -<br>Methodology for IT<br>security evaluation                                                                                 | -          | BS-1 | N                |
| ISO/IEC 25021:2012   | Software               | Systems and software<br>engineering - Systems<br>and software Quality<br>Requirements and<br>Evaluation(SQuaRE) -<br>Quality measure<br>elements                               | -          | BS-1 | Y                |
| ISO/IEC 25023:2016   | Software               | Systems and software<br>engineering - Systems<br>and software Quality<br>Requirements and<br>Evaluation (SQuaRE) -<br>Measurement of system<br>and software product<br>quality | -          | BS-1 | Y                |
| ISO/IEC 25023:2016   | Software               | Systems and software<br>engineering - Systems<br>and software Quality<br>Requirements and<br>Evaluation(SQuaRE) -<br>Measurement of system<br>and software product<br>quality  | -          | BS-7 | Y                |
| ISO/IEC 25023:2016   | Software               | Systems and software<br>engineering - Systems<br>and software Quality<br>Requirements and<br>Evaluation(SQuaRE) -<br>Measurement of system<br>and software product<br>quality  | -          | BS-4 | Y                |
| ISO/IEC 25024:2015   | Software               | Systems and software<br>engineering - Systems<br>and software Quality<br>Requirements and<br>Evaluation (SQuaRE) -<br>Measurement of data<br>quality                           | -          | BS-7 | Y                |

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| Test method             | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                   | Test range | Site | Field<br>testing |
|-------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
| ISO/IEC<br>25024:2015   | Software               | Systems and software engineering - Systems and software Quality Requirements and Evaluation(SQuaRE) - Measurement of data quality                                                                                                                         | -          | BS-1 | Y                |
| ISO/IEC<br>25051:2014   | Software               | Software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Requirements for quality of Ready to Use Software Product (RUSP) and instructions for testing                                                                  | -          | BS-1 | Y                |
| ISO/IEC<br>25051:2014   | Software               | Software engineering —Systems and software Quality Requirements and Evaluation(SQuaRE) - Requirements for quality of Ready to Use Software Product (RUSP) and instructions for testing                                                                    | -          | BS-7 | Y                |
| ISO/IEC<br>25051:2014   | Software               | Software engineering —Systems and software Quality Requirements and Evaluation(SQuaRE) - Requirements for quality of Ready to Use Software Product (RUSP) and instructions for testing                                                                    | -          | BS-4 | Y                |
| ISO/IEC TS<br>4213:2022 | Software               | Information technology - Artificial intelligence - Assessment of machine learning classification performance                                                                                                                                              | -          | BS-7 | Y                |
| KC 62619:2019           | Software               | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary Lithium cells and batteries, for use in industrial applications - 8. Battery System safety (considering functional safety) - Annex D | -          | BS-4 | Y                |

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| Test method               | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                         | Test range | Site | Field<br>testing |
|---------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
| KC 62619:2023             | Software               | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications<br>- 8. Battery system safety (considering functional safety)<br>- Annex E | -          | BS-4 | Y                |
| KS C 5078:2015            | Software               | Video data recording systems for road vehicle accidents<br>- 7.2.4.2 Verification of integrity function for recorded events                                                                                                                                     | -          | BS-1 | N                |
| KS C IEC 61508-1:2010     | Software               | Functional safety of electrical / electronic / programmable electronic safety-related systems - Part 1: General requirements                                                                                                                                    | -          | BS-4 | Y                |
| KS C IEC 62990-1:2019     | Software               | Workplace atmospheres<br>- Part 1: Gas detectors - Performance requirements of detectors for toxic gases<br>4.2.9 Software-controlled equipment<br>5.4.10 Software-controlled equipment                                                                         | -          | BS-1 | Y                |
| KS X IEC 62443-4-2:2019   | Software               | Security for industrial automation and control systems - Part 4-2: Technical security requirements for IACS components                                                                                                                                          | -          | BS-1 | Y                |
| KS X ISO/IEC 15408-1:2005 | Software               | Information technology - Security techniques - Evaluation criteria for IT security<br>- Part 1 : Introduction and general model                                                                                                                                 | -          | BS-1 | N                |
| KS X ISO/IEC 15408-2:2008 | Software               | Information technology - Security techniques - Evaluation criteria for IT security<br>- Part 2 : Security functional components                                                                                                                                 | -          | BS-1 | N                |

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| Test method                  | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                         | Test range | Site | Field<br>testing |
|------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
| KS X ISO/IEC<br>15408-3:2008 | Software               | Information technology<br>- Security techniques -<br>Evaluation criteria for IT<br>security<br>- Part 3 : Security<br>assurance components                                                                      | -          | BS-1 | N                |
| KS X ISO/IEC<br>18045:2010   | Software               | Information technology<br>- Security techniques -<br>Methodology for IT<br>security evaluation                                                                                                                  | -          | BS-1 | N                |
| KS X ISO/IEC<br>25023:2016   | Software               | Systems and software<br>engineering - Systems<br>and software Quality<br>Requirements and<br>Evaluation (SQuaRE) -<br>Measurement of system<br>and software product<br>quality                                  | -          | BS-1 | Y                |
| KS X ISO/IEC<br>25023:2016   | Software               | Systems and software<br>engineering - Systems<br>and software Quality<br>Requirements and<br>Evaluation(SQuaRE) -<br>Measurement of system<br>and software product<br>quality                                   | -          | BS-7 | Y                |
| KS X ISO/IEC<br>25023:2016   | Software               | Systems and software<br>engineering — Systems<br>and software Quality<br>Requirements and<br>Evaluation(SQuaRE) —<br>Measurement of system<br>and software product<br>quality                                   | -          | BS-4 | Y                |
| KS X ISO/IEC<br>25051:2014   | Software               | Software engineering -<br>Systems and software<br>Quality Requirements<br>and Evaluation(SQuaRE)<br>- Requirements for<br>quality of Ready to Use<br>Software Product<br>(RUSP) and instructions<br>for testing | -          | BS-4 | Y                |
| KS X ISO/IEC<br>25051:2014   | Software               | Software engineering<br>—Systems and software<br>Quality Requirements<br>and Evaluation(SQuaRE)<br>- Requirements for<br>quality of Ready to Use<br>Software Product<br>(RUSP) and instructions<br>for testing  | -          | BS-7 | Y                |



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| Test method                                 | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                             | Test range | Site | Field<br>testing |
|---------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
| KS X ISO/IEC<br>25051:2014                  | Software               | Software engineering -<br>Systems and software<br>Quality Requirements<br>and Evaluation<br>(SQuaRE) -<br>Requirements for quality<br>of Ready to Use<br>Software Product<br>(RUSP) and instructions<br>for testing | -          | BS-1 | Y                |
| KS X ISO/IEC TR<br>9126-2:2003              | Software               | Information technology<br>- Software engineering -<br>product quality<br>- Part 2 : External<br>metrics                                                                                                             | -          | BS-1 | N                |
| KS X ISO/IEC TR<br>9126-2:2008              | Software               | Information technology<br>- Software engineering -<br>Product quality - Part 2 :<br>External metrics                                                                                                                | -          | BS-4 | N                |
| MISRA C:2004                                | Software               | Guidelines for the use of<br>the C language in critical<br>systems                                                                                                                                                  | -          | BS-1 | Y                |
| MISRA-C:2004                                | Software               | Guidelines for the use of<br>the C language in critical<br>systems                                                                                                                                                  | -          | BS-4 | Y                |
| MSIT Notice<br>No.2021-101<br>(12.30.2021.) | Software               | Guidelines for the<br>operation of software<br>quality certification                                                                                                                                                | -          | BS-7 | Y                |
| MSIT Notice<br>No.2021-<br>101(12.30.2021.) | Software               | Guidelines for the<br>operation of software<br>quality certification                                                                                                                                                | -          | BS-1 | Y                |
| MSIT Notice<br>No.2021-<br>101(12.30.2021.) | Software               | Guidelines for the<br>operation of software<br>quality certification                                                                                                                                                | -          | BS-4 | Y                |

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| Test method                                | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                   | Test range | Site | Field<br>testing |
|--------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------------|
| MOIS Notice<br>No.2022-<br>18(03.02.2022.) | Software               | Safety code for elevator<br>safety components and<br>safety code for lifts<br>Safety code for elevators<br>under Article 4<br>subparagraph 1 :<br>Appendix 22<br>-15.2.6 Programmable<br>Electronic Systems in<br>Safety Related<br>Applications(PESSRAL)<br>- Annex I List of<br>electrical safety circuits<br>- Annex XIII (Normative)<br>Programmable<br>Electronic Systems in<br>Safety Related<br>Applications for<br>Lifts(PESSRAL) | -          | BS-4 | Y                |

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## 03. Electrical Testing

### 03.013 Energy Efficiency

| Test method             | Materials/<br>Products        | Standard<br>designation                                                                                                | Test range                                  | Site | Field<br>testing |
|-------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------|------------------|
| AHRI 1060:2014          | Air exchanger                 | Performance Rating of Airt-to-Air Exchangers for Energy Recovery Ventilation Equipment                                 | 3 000 Nm <sup>3</sup> /h or less            | BS-2 | N                |
| AHRI 1230:2009          | Air conditioner               | Performance rating of Variable Refrigerant Flow(VRF) Multi-Split Air-conditioning and Heatpump equipment               | (1 160 ~ 87 000) W                          | BS-2 | N                |
| AHRI 1230:2010          | Air conditioner               | Performance rating of Variable Refrigerant Flow(VRF) Multi-Split Air-conditioning and Heatpump equipment               | (1 160 ~ 87 000) W                          | BS-2 | N                |
| AHRI 1230:2021          | Air-conditioner and heat pump | Standard for Performance rating of Variable Refrigerant Flow(VRF) Multi-Split Air-conditioning and Heat pump equipment | (3 000 ~ 320 000) W                         | SF-4 | N                |
| AHRI 1300:2013          | heat pump                     | Standard for performance rating of commercial heatpump water heaters                                                   | (1 160 ~ 87 000) W                          | BS-2 | N                |
| AHRI 1301:2013          | heat pump                     | Performance Rating of Commercial Heat Pump Water Heaters                                                               | (1 160 ~ 87 000) W                          | BS-2 | N                |
| AHRI 210/240:2017       | Air conditioner               | Methods of testing for room air conditioners and packaged terminal air conditioner                                     | (1 160 ~ 87 000) W                          | BS-2 | N                |
| AHRI 210/240:2017       | Air-conditioner, heat pump    | Performance Rating of Unitary Air - conditioning & Air-source Heat Pump Equipment                                      | Cooling/Heating capacity (2 900 ~ 18 600) W | BS-1 | N                |
| AHRI 210/240:2023(2020) | heat pump                     | Standard for Performance Rating of Unitary Air-conditioning & Air-source Heat Pump Equipment                           | (500 ~ 320 000) W                           | SF-4 | N                |
| AHRI 440:2019           | Air handling unit             | Standard for Performance Rating of Room Fan-Coils                                                                      | (500 ~ 320 000) W                           | SF-4 | N                |

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| Test method                   | Materials/<br>Products                  | Standard<br>designation                                                                                                                                                        | Test range                                        | Site | Field<br>testing |
|-------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------|------------------|
| AHRI Standard<br>340/360:2015 | Air<br>conditioner                      | Performance rating of<br>Commercial and<br>Industrial Unitary Air -<br>conditioning and Heat<br>pump equipment                                                                 | (1 160 ~ 87 000) W                                | BS-2 | N                |
| AHRI Standard<br>340/360:2022 | Air-<br>conditioner<br>and heat<br>pump | Standard for<br>Performance Rating of<br>Commercial and<br>Industrial Unitary Air-<br>conditioning and Heat<br>Pump Equipment                                                  | (3 000 ~ 320 000) W                               | SF-4 | N                |
| AHRI Standard<br>870:2016     | heat pump                               | Direct Geoexchange<br>Heats pumps                                                                                                                                              | (1 160 ~ 87 000) W                                | BS-2 | N                |
| AHRI Standard<br>870:2016     | heat pump                               | Standard for<br>Performance Rating of<br>Direct Geoexchange<br>Heat Pumps                                                                                                      | (3 000 ~ 320 000) W                               | SF-4 | N                |
| ANSI-ASHRAE<br>37:2009        | Air-<br>conditioner,<br>heat pump       | Methods of testing for<br>rating Unitary Air -<br>conditioning and heat<br>pump equipment                                                                                      | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| ANSI/AHAM PAC-<br>1-2015      | Air<br>conditioner                      | Portable Air<br>Conditioners                                                                                                                                                   | (500 ~ 20 000) W                                  | SF-4 | N                |
| ANSI/AHRI<br>1300:2013        | heat pump                               | Standard for<br>Performance Rating of<br>Commercial Heat Pump<br>Water Heaters                                                                                                 | (3 000 ~ 320 000) W                               | SF-4 | N                |
| ANSI/AHRI<br>1301:2013        | heat pump                               | Standard for<br>Performance Rating of<br>Commercial Heat Pump<br>Water Heaters                                                                                                 | (3 000 ~ 320 000) W                               | SF-4 | N                |
| ANSI/AHRI 440-<br>2008        | Room fan<br>coils                       | Performance Rating of<br>Room Fan-Coils                                                                                                                                        | (1 160 ~ 87 000) W                                | BS-2 | N                |
| ANSI/ASHARE 16-<br>2016       | Air-<br>conditioner<br>and heat<br>pump | Method of Testing for<br>Rating<br>Room Air Conditioners,<br>Packaged Terminal Air<br>Conditioners, and<br>Packaged Terminal Heat<br>Pumps for Cooling and<br>Heating Capacity | (500 ~ 320 000) W                                 | SF-4 | N                |
| ANSI/ASHARE 16-<br>2016       | heat pump                               | Method of Testing for<br>Rating Room Air<br>Conditioners, Packaged<br>Terminal Air<br>Conditioners, and<br>Packaged Terminal Heat<br>Pumps for Cooling and<br>Heating Capacity | 1 160 ~ 87 000) W                                 | BS-2 | N                |

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| Test method                          | Materials/<br>Products            | Standard<br>designation                                                                                                                                                           | Test range                                        | Site | Field<br>testing |
|--------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------|------------------|
| ANSI/ASHRAE<br>16:1983 (R2014)       | Air-<br>conditioner               | Methods of testing for<br>room air conditioners<br>and packaged terminal<br>air conditioner:                                                                                      | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| ANSI/ASHRAE<br>16:1983(R 2014)       | heat pump                         | Method Of Testing For<br>Rating Room Air<br>Conditioners, Packaged<br>Terminal Air<br>Conditioners and<br>Packaged Terminal Heat<br>Pumps for Cooling and<br>Heating Capacity     | (1 160 ~ 87 000) W                                | BS-2 | N                |
| ANSI/ASHRAE 37-<br>2009(RA2019)      | heat pump                         | Methods of testing for<br>rating Unitary Air -<br>conditioning and heat<br>pump equipment                                                                                         | (500 ~ 320 000) W                                 | SF-4 | N                |
| ANSI/ASHRAE<br>37:2009               | Air<br>conditioner                | Methods of testing for<br>rating Electrically driven<br>Unitary Air conditioning<br>and heat pumps<br>equipments                                                                  | (1 160 ~ 87 000) W                                | BS-2 | N                |
| ANSI/ASHRAE<br>Standard 128-<br>2018 | Air<br>conditioner                | Methods Of Rating<br>Portable Air<br>Conditioners                                                                                                                                 | (500 ~ 20 000) W                                  | SF-4 | N                |
| AS-NZS 3823.1.1-<br>2012             | Air<br>conditioner                | Non ducted air<br>conditions and geat<br>pumps-Testing and<br>rating for performance                                                                                              | (1 160 ~ 87 000) W                                | BS-2 | N                |
| AS-NZS<br>3823.1.1.:2012             | Air-<br>conditioner,<br>heat pump | Nonducted air<br>conditions and geat<br>pumps-Testing and<br>rating for performance                                                                                               | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| AS-NZS 3823.1.2-<br>2012             | Air<br>conditioner                | Ducted air conditioners<br>and air-to-air heat<br>pumps Testing and<br>rating for performance                                                                                     | (1 160 ~ 87 000) W                                | BS-2 | N                |
| AS-NZS<br>3823.1.2.:2012             | Air-<br>conditioner,<br>heat pump | Ducted air conditioners<br>and air-to-air heat<br>pumps Testing and<br>rating for performance                                                                                     | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| AS-NZS 3823.3-<br>2002               | Air<br>conditioner                | Performance of<br>electrical appliances-Air<br>conditioners and heat<br>pumps-performance of<br>electrical appliances-Air<br>conditioners and heat<br>pumps(MEPS)<br>requirements | (1 160 ~ 87 000) W                                | BS-2 | N                |

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| Test method                             | Materials/<br>Products                                                  | Standard<br>designation                                                                                                                                                                                                                        | Test range                                                                                       | Site | Field<br>testing |
|-----------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|------------------|
| AS-NZS<br>3823.3:2002                   | Air-<br>conditioner,<br>heat pump                                       | Calculation of<br>performance for<br>minimum energy<br>performance standard<br>requirements                                                                                                                                                    | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W                                                | BS-1 | N                |
| AS-NZS<br>4474.1:2007<br>Amdt2:2011     | Household<br>refrigerating<br>appliances                                | Performance of<br>household electrical<br>appliances -<br>Refrigerating appliances<br>- Energy consumption<br>and performance                                                                                                                  | (0 ~ 600) V<br>(0 ~ 20) A                                                                        | BS-1 | N                |
| AS/NZS<br>2040.1:2005                   | Electric<br>appliances for<br>households                                | Performance of<br>household electrical<br>appliances - Clothes<br>washing machines- Part<br>1 : Methods for<br>measuring performance<br>energy and water<br>consumption                                                                        | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| AS/NZS<br>2040.2:2005                   | Electric<br>appliances for<br>households                                | Performance of<br>household electrical<br>appliances - Clothes<br>washing machines- Part<br>2 : Energy efficiency<br>labelling requirements                                                                                                    | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| AS/NZS<br>2442.1:1996                   | Electric<br>appliances for<br>households                                | Performance of<br>household electrical<br>appliances- Rotary<br>clothes dryers- Part 1 :<br>Energy Consumption<br>and Performance                                                                                                              | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| AS/NZS<br>2442.2:2000                   | Electric<br>appliances for<br>households                                | Performance of<br>household electrical<br>appliances - Rotary<br>clothes dryers- Part 2 :<br>Energy labelling<br>requirements                                                                                                                  | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| AS/NZS<br>3823.1.3.:2005/A<br>mdt1:2011 | Air<br>conditioners<br>and heat<br>pumps Water-<br>source heat<br>pumps | Performance of<br>electrical appliances -<br>Air conditioners and<br>heat pumps Water-<br>source heat pumps -<br>Water-to-air and brine-<br>to-air heat pumps -<br>Testing and rating of<br>performance (ISO<br>13256-1, Ed. 01 (1998)<br>MOD) | (1 160 ~ 87 000) W                                                                               | BS-2 | N                |

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| Test method                          | Materials/<br>Products                                                                                                    | Standard<br>designation                                                                                                                                                                                                          | Test range                                        | Site | Field<br>testing |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------|------------------|
| AS/NZS<br>3823.1.4:2012              | Air<br>conditioners<br>and heat<br>pumps<br>Multiple split-<br>system air<br>conditioners<br>and air-to-air<br>heat pumps | Performance of<br>electrical appliances -<br>Air conditioners and<br>heat pumps Multiple<br>split-system air<br>conditioners and air-to-<br>air heat pumps - Testing<br>and rating for<br>performance (ISO<br>15042 : 2011, MOD) | (1 160 ~ 87 000) W                                | BS-2 | N                |
| AS/NZS<br>3823.2:2013                | Air-<br>conditioner,<br>heat pump                                                                                         | Performance of<br>electrical appliances - Air<br>conditioners and heat<br>pumps Energy labelling<br>and minimum energy<br>performance standards<br>(MEPS) requirements                                                           | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| AS/NZS<br>3823.2:2013                | Air<br>conditioners<br>and heat<br>pumps                                                                                  | Performance of<br>electrical appliances -<br>Air conditioners and<br>heat pumps Energy<br>labelling and minimum<br>energy performance<br>standards (MEPS)<br>requirements                                                        | (1 160 ~ 87 000) W                                | BS-2 | N                |
| AS/NZS<br>4234:2008/Amdt2<br>:2011   | Heated water<br>systems                                                                                                   | Heated water systems -<br>calculation of energy<br>consumption                                                                                                                                                                   | (1 160 ~ 87 000) W                                | BS-2 | N                |
| AS/NZS<br>4234:2008/Amdt3<br>:2014   | Heated water<br>systems                                                                                                   | Heated Water systems -<br>calculation of energy<br>consumption                                                                                                                                                                   | (1 160 ~ 87 000) W                                | BS-2 | N                |
| AS/NZS<br>4474.1:2007/Amd<br>t2:2011 | Electrical<br>machinery for<br>households                                                                                 | Performance of<br>household electrical<br>appliances -<br>Refrigerating appliances<br>- Energy consumption<br>and performance                                                                                                    | 10 kW or less                                     | BS-2 | N                |
| AS/NZS<br>4474.2:2009/Amd<br>t1:2011 | Household<br>refrigerating<br>appliances                                                                                  | Performance of<br>household electrical<br>appliances -<br>Refrigerating appliances<br>energy labelling and<br>minimum energy<br>performance standard<br>requirements                                                             | (0 ~ 600) V<br>(0 ~ 20) A                         | BS-1 | N                |
| AS/NZS<br>4474.2:2009/Amd<br>t2:2014 | Household<br>refrigerating<br>appliances                                                                                  | Performance of<br>household electrical<br>appliances -<br>Refrigerating appliances<br>Energy labelling and<br>minimum energy<br>performance standard<br>requirements                                                             | (1 160 ~ 87 000) W                                | BS-2 | N                |



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| Test method                             | Materials/<br>Products             | Standard<br>designation                                                                                                                                                        | Test range                                                                                 | Site | Field<br>testing |
|-----------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------|------------------|
| AS/NZS<br>4692.1:2005(R2016)/Amdt2:2015 | Electric water heaters             | Electric water heaters - energy consumption, performance and general requirements                                                                                              | (1 160 ~ 87 000) W                                                                         | BS-2 | N                |
| AS/NZS 5125                             | Heat Pump Water Heaters            | Heat Pump Water Heaters - Performance Assessment                                                                                                                               | (1 160 ~ 87 000) W                                                                         | BS-2 | N                |
| AS/NZS 5125.1:2014                      | Heat Pump Water Heaters            | HeatPump Water Heaters-performance Assessment                                                                                                                                  | (1 160 ~ 87 000) W                                                                         | BS-2 | N                |
| AS/NZS 6400:2016                        | Electric appliances for households | Water efficient products - Rating and labelling                                                                                                                                | Input Power : Max. 5 kW<br>Input Voltage : Single Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| BS EN 14511-1:2018                      | Air conditioner                    | Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space Heating and cooling. Terms, definitions and classification            | (1 160 ~ 87 000) W                                                                         | BS-2 | N                |
| BS EN 14511-2:2018                      | Air conditioner                    | Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space Heating and cooling. Test conditions                                  | (1 160 ~ 87 000) W                                                                         | BS-2 | N                |
| BS EN 14511-3:2018                      | Air conditioner                    | Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space Heating and cooling. Test methods                                     | (1 160 ~ 87 000) W                                                                         | BS-2 | N                |
| BS EN 14511-4:2018                      | Air conditioner                    | Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space Heating and cooling. Operating requirements, marking and instructions | (1 160 ~ 87 000) W                                                                         | BS-2 | N                |

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| Test method                                                | Materials/<br>Products                   | Standard<br>designation                                                                                                                                                                                                                       | Test range                                                                                       | Site | Field<br>testing |
|------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|------------------|
| BS EN 14825:2018                                           | Air<br>conditioner                       | Air conditioners, liquid<br>chilling packages and<br>heat pumps, with<br>electrically driven<br>compressors, for space<br>Heating and cooling.<br>Testing and rating at<br>part load conditions and<br>calculation of seasonal<br>performance | (1 160 ~ 87 000) W                                                                               | BS-2 | N                |
| BS EN 15218:2013                                           | Air<br>conditioner                       | Air conditioners and<br>liquid chilling packages<br>with evaporatively<br>cooled condenser and<br>with electrically driven<br>compressors for space<br>cooling. Terms,<br>definitions, test<br>conditions, test methods<br>and requirements   | (1 160 ~ 87 000) W                                                                               | BS-2 | N                |
| BS EN 16147:2017                                           | heat pump                                | Heat pumps with<br>electrically driven<br>compressors - Testing,<br>performance rating and<br>requirements for<br>marking of domestic hot<br>water units                                                                                      | (1 160 ~ 87 000) W                                                                               | BS-2 | N                |
| CAN/CSA 370-<br>13(R2018)                                  | Air<br>conditioner                       | Cooling performance of<br>portable air conditioners                                                                                                                                                                                           | (500 ~ 20 000) W                                                                                 | SF-4 | N                |
| DECRETO<br>SUPREMO N° 009-<br>2017-em_ANEXO<br>6 Lavadoras | Electric<br>appliances for<br>households | On labeling of energy<br>efficiency for washing<br>machines deomestic use<br>clothes                                                                                                                                                          | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| DGNTI<br>COPANIT506:2017                                   | Air<br>conditioner                       | Energy efficiency of<br>central, package or split<br>type air conditioners.<br>Limits, test methods.                                                                                                                                          | (500 ~ 20 000) W                                                                                 | SF-4 | N                |
| DGNTI<br>COPANIT507:2017                                   | Air<br>conditioner                       | Energy efficiency for<br>room air<br>conditioners. Limits, test<br>methods.                                                                                                                                                                   | (500 ~ 20 000) W                                                                                 | SF-4 | N                |
| DGNTICOPANIT50<br>8:<br>2017                               | Air<br>conditioner                       | Energy efficiency for<br>separated<br>assemblies, free<br>discharge and<br>non-ducted air<br>conditioners. limits and<br>test methods                                                                                                         | (500 ~ 20 000) W                                                                                 | SF-4 | N                |

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| Test method           | Materials/<br>Products        | Standard<br>designation                                                                                                                                                            | Test range         | Site | Field<br>testing |
|-----------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| DGNTICOPANIT509:2017  | Air conditioner               | Energy efficiency in split-type air conditioners with variable refrigerant flow, free discharge and without air ducts. Limits, test methods.                                       | (500 ~ 20 000) W   | SF-4 | N                |
| DGNTI-COPANIT506:2017 | Air conditioner               | Energy efficiency of central, package or split type air conditioners. Limits, test methods.                                                                                        | (1 160 ~ 87 000) W | BS-2 | Y                |
| DGNTI-COPANIT507:2017 | Air conditioner               | Energy efficiency for room air conditioners. Limits, test methods.                                                                                                                 | (1 160 ~ 87 000) W | BS-2 | Y                |
| DGNTI-COPANIT508:2017 | Air conditioner               | Energy efficiency for separated assemblies, free discharge and non-ducted air conditioners. limits and test methods                                                                | (1 160 ~ 87 000) W | BS-2 | Y                |
| DGNTI-COPANIT509:2017 | Refrigerator                  | Energy efficiency in split-type air conditioners with variable refrigerant flow, free discharge and without air ducts. Limits, test methods.                                       | (1 160 ~ 87 000) W | BS-2 | Y                |
| DGNTI-COPANIT511:2017 | Refrigerator                  | Energy efficiency of refrigerator and freezer appliances. Limits, test methods.                                                                                                    | 10 kW or less      | BS-2 | Y                |
| EN 14511-1:2018       | Air-conditioner and heat pump | Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 1: Terms and definitions | (500 ~ 320 000) W  | SF-4 | N                |
| EN 14511-1:2022       | Air-conditioner and heat pump | Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors - Part 1: Terms and definitions | (500 ~ 320 000) W  | SF-4 | N                |

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| Test method     | Materials/<br>Products                        | Standard<br>designation                                                                                                                                                                                 | Test range                                        | Site | Field<br>testing |
|-----------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------|------------------|
| EN 14511-1:2022 | Air<br>conditioner                            | Air conditioners, liquid<br>chilling packages and<br>heat pumps for space<br>heating and cooling and<br>process chillers, with<br>electrically driven<br>compressors- Part 1 :<br>Terms and definitions | (1 160 ~ 87 000) W                                | BS-2 | N                |
| EN 14511-2:2018 | Air-<br>conditioner<br>and heat<br>pump       | Air conditioners, liquid<br>chilling packages and<br>heat pumps for space<br>heating and cooling and<br>process chillers, with<br>electrically driven<br>compressors - Part 2:<br>Test conditions       | (500 ~ 320 000) W                                 | SF-4 | N                |
| EN 14511-2:2022 | Air-<br>conditioner<br>and heat<br>pump       | Air conditioners, liquid<br>chilling packages and<br>heat pumps for space<br>heating and cooling and<br>process chillers, with<br>electrically driven<br>compressors - Part 2:<br>Test conditions       | (500 ~ 320 000) W                                 | SF-4 | N                |
| EN 14511-2:2022 | Air<br>conditioner                            | Air conditioners, liquid<br>chilling packages<br>and heat pumps for<br>space heating and<br>cooling and process<br>chillers, with electrically<br>driven compressors-<br>Part 2 : Test conditions       | (1 160 ~ 87 000) W                                | BS-2 | N                |
| EN 14511-3:2018 | Air-<br>conditioner,<br>chiller, heat<br>pump | Air conditioners liquid<br>chilling packages and<br>heat pumps With<br>electrically driven<br>compressors for space<br>heating and cooling<br>- Part 3: Test methods                                    | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| EN 14511-3:2018 | Air-<br>conditioner<br>and heat<br>pump       | Air conditioners, liquid<br>chilling packages and<br>heat pumps for space<br>heating and cooling and<br>process chillers, with<br>electrically driven<br>compressors - Part 3:<br>Test methods          | (500 ~ 320 000) W                                 | SF-4 | N                |

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| Test method     | Materials/<br>Products                        | Standard<br>designation                                                                                                                                                                                                                     | Test range                                        | Site | Field<br>testing |
|-----------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------|------------------|
| EN 14511-3:2022 | Air-<br>conditioner<br>and heat<br>pump       | Air conditioners, liquid<br>chilling packages and<br>heat pumps for space<br>heating and cooling and<br>process chillers, with<br>electrically driven<br>compressors - Part 3:<br>Test methods                                              | (500 ~ 320 000) W                                 | SF-4 | N                |
| EN 14511-3:2022 | Air<br>conditioner                            | Air conditioners, liquid<br>chilling packages and<br>heat pumps for<br>space heating and<br>cooling and process<br>chillers, with electrically<br>driven compressors- Part<br>3 : Test methods                                              | (1 160 ~ 87 000) W                                | BS-2 | N                |
| EN 14511-4:2018 | Air-<br>conditioner<br>and heat<br>pump       | Air conditioners, liquid<br>chilling packages and<br>heat pumps for space<br>heating and cooling and<br>process chillers, with<br>electrically driven<br>compressors - Part 4:<br>Requirements                                              | (500 ~ 320 000) W                                 | SF-4 | N                |
| EN 14511-4:2022 | Air-<br>conditioner<br>and heat<br>pump       | Air conditioners, liquid<br>chilling packages and<br>heat pumps for space<br>heating and cooling and<br>process chillers, with<br>electrically driven<br>compressors - Part 4:<br>Requirements                                              | (500 ~ 320 000) W                                 | SF-4 | N                |
| EN 14511-4:2022 | Air<br>conditioner                            | Air conditioners, liquid<br>chilling packages and<br>heat pumps for space<br>heating and cooling and<br>process chillers, with<br>electrically driven<br>compressors- Part 4 :<br>Requirements                                              | (1 160 ~ 87 000) W                                | BS-2 | N                |
| EN 14825:2018   | Air-<br>conditioner,<br>chiller, heat<br>pump | Air conditioners liquid<br>chilling packages and<br>heat pumps With<br>electrically driven<br>compressors for space<br>heating and cooling -<br>Testing and rating at<br>part load conditions and<br>calculation of seasonal<br>performance | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |

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| Test method   | Materials/<br>Products        | Standard<br>designation                                                                                                                                                                                                                            | Test range         | Site | Field<br>testing |
|---------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|------------------|
| EN 14825:2018 | Air-conditioner and heat pump | Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling, commercial and process cooling. Testing and rating at part load conditions and calculation of seasonal performance | (500 ~ 320 000) W  | SF-4 | N                |
| EN 14825:2022 | Air-conditioner and heat pump | Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling, commercial and process cooling. Testing and rating at part load conditions and calculation of seasonal performance | (500 ~ 320 000) W  | SF-4 | N                |
| EN 15218:2013 | Air-conditioner and heat pump | Air conditioners and liquid chilling packages with evaporatively cooled condenser and with electrically driven compressors for space cooling. Terms, definitions, test conditions, test methods and requirements                                   | (500 ~ 320 000) W  | SF-4 | N                |
| EN 15218:2022 | Air-conditioner and heat pump | Air conditioners and liquid chilling packages with evaporatively cooled condenser and with electrically driven compressors for space cooling. Terms, definitions, test conditions, test methods and requirements                                   | (500 ~ 320 000) W  | SF-4 | N                |
| EN 16147:2017 | Air-conditioner and heat pump | Heat pumps with electrically driven compressors - Testing, performance rating and requirements for marking of domestic hot water units                                                                                                             | (500 ~ 320 000) W  | SF-4 | N                |
| EN 26:2015    | Electric water heater         | Electric instantaneous water heaters. General requirements                                                                                                                                                                                         | (1 160 ~ 87 000) W | BS-2 | N                |

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| Test method      | Materials/<br>Products                                 | Standard<br>designation                                                                                                                                                  | Test range                                                                                       | Site | Field<br>testing |
|------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|------------------|
| EN 50229:2007    | Electric<br>appliances for<br>households               | Electric Clothes Washer-<br>Dryers For Household<br>Use - Methods Of<br>Measuring The<br>Performance<br><Exception><br>9.5 Determination of<br>airborne acoustical noise | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| EN 50229:2015    | Electric<br>appliances for<br>households               | Electric Clothes Washer-<br>Dryers For Household<br>Use - Methods Of<br>Measuring The<br>Performance<br><Exception><br>9.5 Determination of<br>airborne acoustical noise | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| EN 60456:2011    | Electric<br>appliances for<br>households               | Clothes washing<br>machines for household<br>use - Methods for<br>measuring the<br>performance                                                                           | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| EN 60456:2016    | Electric<br>appliances for<br>households               | Clothes washing<br>machines for household<br>use - Methods for<br>measuring the<br>performance                                                                           | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| EN 61121:2005    | Electric<br>appliances for<br>households               | Tumble dryers for<br>household use -<br>Methods for measuring<br>the performance                                                                                         | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| EN 61121:2013    | Electric<br>appliances for<br>households               | Tumble dryers for<br>household use -<br>Methods for measuring<br>the performance                                                                                         | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| ES 4814:2018     | Non-ducted<br>air<br>conditioners<br>and heat<br>pumps | Non-ducted air<br>conditioners and heat<br>pumps - Testing and<br>rating for performance                                                                                 | (1 160 ~ 87 000) W                                                                               | BS-2 | Y                |
| ES 7993:2018     | Televisions<br>And Displays                            | Energy Efficiency Label<br>For Televisions And<br>Displays                                                                                                               | Power: (0 ~ 2 200) W                                                                             | BS-1 | N                |
| ES : 3795-1/2016 | Air<br>conditioner                                     | Energy Efficiency Label<br>requirements for Air<br>Conditions<br>Part 1 :<br>Room Air Conditioner<br>window -Split) with<br>fixed Capacity &fixed<br>Compressor          | (1 160 ~ 87 000) W                                                                               | BS-2 | N                |



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| Test method           | Materials/<br>Products                  | Standard<br>designation                                                                                                                                                                 | Test range          | Site | Field<br>testing |
|-----------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------|------------------|
| ES : 3795-2/2017      | Air<br>conditioner                      | Requirements of energy<br>efficiency card for air<br>conditioners second<br>part : Room Air<br>conditioner(window<br>-split) with variable<br>capacity and variable<br>speed compressor | (1 160 ~ 87 000) W  | BS-2 | N                |
| ES : 3795-5/2018      | Air<br>conditioner                      | Energy Efficiency Label<br>Requirements for Air<br>Conditioner - Part 5:<br>Fixed Capacity Ducted<br>Room Air Conditioner<br>with Fixed Speed<br>Compressor                             | (1 160 ~ 87 000) W  | BS-2 | N                |
| GB/T 21362-2008       | Energy<br>Efficiency                    | Heat pump water heater<br>for commercial<br>& industrial and similar<br>application                                                                                                     | (3 000 ~ 320 000) W | SF-4 | N                |
| GB/T 21362-2008       | heat pump                               | Heatpump Water Heater<br>for Commercial &<br>Industrial and Similar<br>Uses                                                                                                             | (1 160 ~ 87 000) W  | BS-2 | N                |
| GB/T 23137-2008       | heat pump                               | Heatpump Water Heater<br>for Household and<br>Similar Uses                                                                                                                              | (1 160 ~ 87 000) W  | BS-2 | N                |
| GB/T 23137-2020       | Energy<br>Efficiency                    | Heat pump water heater<br>for household and<br>similar application                                                                                                                      | (500 ~ 320 000) W   | SF-4 | N                |
| GSO 1589:2002         | Air<br>conditioner                      | Air Ducts For Air<br>Conditions - Part1:<br>Definitions,<br>Classification And<br>Terminology.                                                                                          | (500 ~ 320 000) W   | SF-4 | N                |
| GSO 2530:2016         | Air<br>conditioner                      | Energy Labelling And<br>Minimum Energy<br>Performance<br>Requirements For Air-<br>Conditioners                                                                                          | (500 ~ 20 000) W    | SF-4 | N                |
| GSO 2531:2016         | Air<br>conditioner                      | Safety And Performance<br>Requirements For Air-<br>Conditioners And<br>Methods Of Test<br>Including MEPS                                                                                | (500 ~ 20 000) W    | SF-4 | N                |
| GSO ISO<br>13253:2021 | Air-<br>conditioner<br>and heat<br>pump | Ducted Air-Conditioners<br>And Air-To-Air Heat<br>Pumps - Testing And<br>Rating For Performance                                                                                         | (500 ~ 320 000) W   | SF-4 | N                |

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| Test method           | Materials/<br>Products        | Standard<br>designation                                                                                                                                                  | Test range          | Site | Field<br>testing |
|-----------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------|------------------|
| GSO ISO 13256-1:2013  | Air-conditioner and heat pump | Water-Source Heat Pumps -- Testing And Rating For Performance -- Part 1: Water-To-Air And Brine-To-Air Heat Pumps                                                        | (500 ~ 320 000) W   | SF-4 | N                |
| GSO ISO 13256-2:2013  | Air-conditioner and heat pump | Water-Source Heat Pumps -- Testing And Rating For Performance -- Part 2: Water-To-Water And Brine-To-Water Heat Pumps                                                    | (3 000 ~ 200 000) W | SF-4 | N                |
| GSO ISO 15042:2013    | Air-conditioner and heat pump | Multiple Split-System Air-Conditioners And Air-To-Air Heat Pumps - Testing And Rating For Performance                                                                    | (3 000 ~ 320 000) W | SF-4 | N                |
| GSO ISO 16358-1:2016  | Air-conditioner and heat pump | Air-Cooled Air Conditioners And Air-To-Air Heat Pumps -- Testing And Calculating Methods For Seasonal Performance Factors -- Part 1: Cooling Seasonal Performance Factor | (500 ~ 320 000) W   | SF-4 | N                |
| GSO ISO 16358-2:2016  | Air-conditioner and heat pump | Air-Cooled Air Conditioners And Air-To-Air Heat Pumps -- Testing And Calculating Methods For Seasonal Performance Factors -- Part 2: Heating Seasonal Performance Factor | (500 ~ 320 000) W   | SF-4 | N                |
| GSO ISO 16358-3:2016  | Air-conditioner and heat pump | Air-Cooled Air Conditioners And Air-To-Air Heat Pumps -- Testing And Calculating Methods For Seasonal Performance Factors -- Part 3: Annual Performance Factor           | (500 ~ 320 000) W   | SF-4 | N                |
| GSO ISO 5151:2021     | Air-conditioner and heat pump | Non-Ducted Air Conditioners And Heat Pumps — Testing And Rating For Performance                                                                                          | (500 ~ 320 000) W   | SF-4 | N                |
| GSO ISO/TS 16491:2015 | Air-conditioner and heat pump | Guidelines for the evaluation of uncertainty of measurement in air conditioner and heat pump cooling and heating capacity tests                                          | (500 ~ 320 000) W   | SF-4 | N                |

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| Test method                         | Materials/<br>Products                   | Standard<br>designation                                                                                                                                                 | Test range                                                                                       | Site | Field<br>testing |
|-------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60034-1:2010                    | Rotating<br>electrical<br>machines       | Rotating electrical<br>machines - Part 1:<br>Rating and performance                                                                                                     | single phase: 400 V or<br>less<br>three phase: 600 V or<br>less<br>Power: 375 kW or less         | BS-2 | Y                |
| IEC 60034-1:2022                    | Rotating<br>electrical<br>machines       | Rotating electrical<br>machines - Part 1:<br>Rating and performance                                                                                                     | single phase: 400 V or<br>less<br>three phase: 600 V or<br>less<br>Power: 375 kW or less         | BS-2 | Y                |
| IEC 60034-2-<br>1:2014              | Rotating<br>electrical<br>machines       | Rotating electrical<br>machines - Part 2-1:<br>Standard methods for<br>determining losses and<br>efficiency from tests<br>(excluding machines for<br>traction vehicles) | single phase: 400 V or<br>less<br>three phase: 600 V or<br>less<br>Power: 375 kW or less         | BS-2 | Y                |
| IEC 60034-30-<br>1:2014             | Rotating<br>electrical<br>machines       | Rotating electrical<br>machines - Part 30-1:<br>Efficiency classes of line<br>operated AC motors (IE<br>code)                                                           | single phase: 400 V or<br>less<br>three phase: 600 V or<br>less<br>Power: 375 kW or less         | BS-2 | Y                |
| IEC 60312-1: 2010<br>+AMD1:2011 CSV | Cordless dry<br>vacuum<br>cleaners       | Vacuum cleaners for<br>household use - Part 1:<br>Dry vacuum cleaners -<br>Methods for measuring<br>the performance                                                     | Suction power : (0<br>~500) W                                                                    | BS-1 | N                |
| IEC 60456:2003                      | Electric<br>appliances for<br>households | Clothes washing<br>machines for household<br>use Methods for<br>measuring the<br>performance                                                                            | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| IEC 60456:2010                      | Electric<br>appliances for<br>households | Clothes washing<br>machines for household<br>use - Methods for<br>measuring the<br>performance                                                                          | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| IEC<br>60456:2010+AMD<br>1:2022 CSV | Electric<br>appliances for<br>households | Clothes washing<br>machines for household<br>use - Methods for<br>measuring the<br>performance                                                                          | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| IEC 60705:2010                      | Electric<br>appliances for<br>households | Household microwave<br>ovens - Methods for<br>measuring performance                                                                                                     | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |

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| Test method                     | Materials/<br>Products                                                | Standard<br>designation                                                                                                                                                                       | Test range                                                                                       | Site | Field<br>testing |
|---------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|------------------|
| IEC<br>60705:2010/AMD<br>1:2014 | Electric<br>appliances for<br>households                              | Household microwave<br>ovens - Methods for<br>measuring performance                                                                                                                           | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| IEC 60904-1-<br>1:2017          | Photovoltaic<br>(PV) module                                           | Photovoltaic devices -<br>Part 1-1: Measurement<br>of current-voltage<br>characteristics of multi-<br>junction photovoltaic<br>(PV) devices                                                   | voltage : 40 V or less<br>current : 10 A or less                                                 | BS-2 | N                |
| IEC 60904-1:2020                | Photovoltaic<br>(PV) module                                           | Photovoltaic devices -<br>Part 1: Measurement of<br>photovoltaic current-<br>voltage characteristics                                                                                          | voltage : 40 V or less<br>current : 10 A or less                                                 | BS-2 | N                |
| IEC<br>61121:2002+AMD<br>1:2005 | Electric<br>appliances for<br>households                              | Tumble dryers for<br>household use -<br>Methods for measuring<br>the performance                                                                                                              | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| IEC 61121:2012                  | Electric<br>appliances for<br>households                              | Tumble Dryers For<br>Household Use -<br>Methods For Measuring<br>The Performance                                                                                                              | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| IEC 61215 Ed.<br>2.0b:2005      | Crystalline<br>Silicon<br>Terrestrial<br>Photovoltaic<br>(PV) Modules | Crystalline Silicon<br>Terrestrial Photovoltaic<br>(PV) Modules - Design<br>Qualification and Type<br>Approval                                                                                | 10 A / 120 V or less<br>20 A / 60 V or less<br>5 A / 150 V or less<br>2.5 A / 300 V or less      | BS-2 | N                |
| IEC 61215-1<br>Ed.2:2021        | Photovoltaic<br>(PV) module                                           | Terrestrial photovoltaic<br>(PV) modules-Design<br>qualification and type<br>approval-Part 1:Test<br>requirements                                                                             | 40 A / 500 V or less                                                                             | SF-1 | Y                |
| IEC 61215-1-1<br>Ed.2:2021      | Photovoltaic<br>(PV) module                                           | Terrestrial photovoltaic<br>(PV) modules-Design<br>qualification and type<br>approval-Part 1-<br>1:Special requirements<br>for testing of crystalline<br>silicon photovoltaic (PV)<br>modules | 40 A / 500 V or less                                                                             | SF-1 | Y                |
| IEC 61215-2<br>Ed.2:2021        | Photovoltaic<br>(PV) module                                           | Terrestrial photovoltaic<br>(PV) modules-Design<br>qualification and type<br>approval - Part 2:Test<br>procedures                                                                             | 40 A / 500 V or less                                                                             | SF-1 | Y                |
| IEC 61701<br>Ed.3:2020          | Photovoltaic<br>(PV) module                                           | Photovoltaic (PV)<br>modules - Salt mist<br>corrosion testing                                                                                                                                 | 40 A / 500 V or less                                                                             | SF-1 | Y                |

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|---------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------|------|------------------|
| IEC 61730-1:2023          | Photovoltaic<br>(PV) module               | Photovoltaic (PV)<br>module safety<br>qualification-part 1:<br>Requirements for<br>construction                             | 40 A / 100 V or less | SF-1 | Y                |
| IEC 61730-2:2023          | Photovoltaic<br>(PV) module               | Photovoltaic (PV)<br>module safety<br>qualification-part 2 :<br>Requirements for testing                                    | 40 A / 100 V or less | SF-1 | Y                |
| IEC 62087-1:2015          | Audio, video,<br>and related<br>equipment | Audio, video, and<br>related equipment -<br>Determination of power<br>consumption - Part 1:<br>General                      | (0 ~ 2 200) W        | BS-1 | N                |
| IEC 62087-2:2015          | Audio, video,<br>and related<br>equipment | Audio, video, and<br>related equipment -<br>Determination of power<br>consumption - Part 2:<br>Signals and media            | (0 ~ 2 200) W        | BS-1 | N                |
| IEC 62087-3:2015          | Audio, video,<br>and related<br>equipment | Audio, video, and<br>related equipment -<br>Determination of power<br>consumption - Part 3:<br>Television sets              | (0 ~ 2 200) W        | BS-1 | N                |
| IEC 62087-4:2015          | Audio, video,<br>and related<br>equipment | Audio, video, and<br>related equipment -<br>Determination of power<br>consumption - Part 4:<br>Video recording<br>equipment | (0 ~ 2 200) W        | BS-1 | N                |
| IEC 62087-5:2015          | Audio, video,<br>and related<br>equipment | Audio, video, and<br>related equipment -<br>Determination of power<br>consumption - Part 5:<br>Set top boxes(STB)           | (0 ~ 2 200) W        | BS-1 | N                |
| IEC 62087-6:2015          | Audio, video,<br>and related<br>equipment | Audio, video, and<br>related equipment -<br>Determination of power<br>consumption - Part 6:<br>Audio equipment              | (0 ~ 2 200) W        | BS-1 | N                |
| IEC 62087:2011            | Audio, video,<br>and related<br>equipment | Methods of<br>measurement for the<br>power consumption of<br>audio video and related<br>equipment                           | (0 ~ 2 200) W        | BS-1 | N                |
| IEC 62301 Ed.<br>2.0:2011 | Household<br>Electrical<br>Appliances     | Household Electrical<br>Appliances -<br>Measurement of<br>Standby Power                                                     | 100 W or less        | BS-2 | N                |

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| Test method                | Materials/<br>Products             | Standard<br>designation                                                                                 | Test range                                                                                  | Site | Field<br>testing |
|----------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|------------------|
| IEC 62301:2011             | Household electrical appliances    | Household electrical appliances - Measurement of standby power                                          | 500 W or less                                                                               | BS-1 | N                |
| IEC 62301:2011             | Electric appliances for households | Household electrical appliances - Measurement of standby power                                          | Input Power : Max. 500 W<br>Input Voltage : Single Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| IEC 62512:2012             | Electric appliances for households | Electric clothes washer - dryers for household use - Methods for measuring the performance              | Input Power : Max. 5 kW<br>Input Voltage : Single Phase Max. 250 V<br>Frequency : 50/60 Hz  | BS   | N                |
| IEC 62552-1:2015           | Household Refrigerating appliances | Household Refrigerating Appliances - Characteristics And Test Methods Part 1 : General Requirements     | 10 kW or less                                                                               | BS-2 | Y                |
| IEC 62552-1:2015           | Household refrigerating appliances | Household Refrigerating Appliances - Characteristics and Test Methods Part 1 : General Requirements     | (0 ~ 600) V<br>(0 ~ 20) A                                                                   | BS-1 | N                |
| IEC 62552-1:2015+AMD1:2020 | Refrigerating Appliances           | Household Refrigerating Appliances - Characteristics And Test Methods Part 1 : General Requirements     | 10 kW or less                                                                               | BS-2 | Y                |
| IEC 62552-1:2015+AMD1:2020 | Refrigerating Appliances           | Household Refrigerating Appliances - Characteristics And Test Methods Part 1 : General Requirements     | 10 kW or less                                                                               | BS-1 | N                |
| IEC 62552-2:2015           | Household Refrigerating appliances | Household Refrigerating Appliances - Characteristics And Test Methods Part 2 : Performance requirements | 10 kW or less                                                                               | BS-2 | Y                |
| IEC 62552-2:2015           | Household refrigerating appliances | Household Refrigerating Appliances - Characteristics and Test Methods Part 2 : Performance requirements | (0 ~ 600) V<br>(0 ~ 20) A                                                                   | BS-1 | N                |



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| Test method                | Materials/<br>Products             | Standard<br>designation                                                                                      | Test range                | Site | Field<br>testing |
|----------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------|------|------------------|
| IEC 62552-2:2015+AMD1:2020 | Refrigerating Appliances           | Household Refrigerating Appliances - Characteristics And Test Methods Part 2 : Performance requirements      | 10 kW or less             | BS-1 | N                |
| IEC 62552-2:2015+AMD1:2020 | Refrigerating Appliances           | Household Refrigerating Appliances - Characteristics And Test Methods Part 2 : Performance requirements      | 10 kW or less             | BS-2 | Y                |
| IEC 62552-3:2015           | Household Refrigerating appliances | Household Refrigerating Appliances - Characteristics And Test Methods Part 3 : Energy consumption and volume | 10 kW or less             | BS-2 | Y                |
| IEC 62552-3:2015           | Household refrigerating appliances | Household Refrigerating Appliances - Characteristics and Test Methods Part 3 : Energy consumption and volume | (0 ~ 600) V<br>(0 ~ 20) A | BS-1 | N                |
| IEC 62552-3:2015+AMD1:2020 | Refrigerating Appliances           | Household Refrigerating Appliances - Characteristics And Test Methods Part 3 : Energy consumption and volume | 10 kW or less             | BS-1 | N                |
| IEC 62552-3:2015+AMD1:2020 | Refrigerating Appliances           | Household Refrigerating Appliances - Characteristics And Test Methods Part 3 : Energy consumption and volume | 10 kW or less             | BS-2 | Y                |
| IEC 62552:2007             | Household refrigerating appliances | Household refrigerating appliances - Characteristics and test methods                                        | 10 kW or less             | BS-1 | N                |
| IEC 62552:2007             | Household refrigerating appliances | Household refrigerating appliances - Characteristics and test methods                                        | 10 kW or less             | BS-2 | Y                |



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| Test method                      | Materials/<br>Products                          | Standard<br>designation                                                                                                                                      | Test range                                        | Site | Field<br>testing |
|----------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------|------------------|
| IEC 62885-4:2020                 | Cordless dry<br>vacuum<br>cleaners              | Surface cleaning<br>appliances -<br>Part 4: Cordless dry<br>vacuum cleaners for<br>household or similar use<br>- Methods for<br>measuring the<br>performance | Suction power : (0 ~<br>500) W                    | BS-1 | N                |
| ISO 13253:2017                   | Ducted air<br>conditioners<br>and heat<br>pumps | Ducted air conditioners<br>and heat pumps -<br>Testing and rating for<br>performance                                                                         | (1 160 ~ 87 000) W                                | BS-2 | N                |
| ISO 13253:2017                   | Air-<br>conditioner,<br>heat pump               | Ducted air-conditioners<br>and air-to-air heat<br>pumps - Testing and<br>rating for performance                                                              | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| ISO 13253:2017                   | Air-<br>conditioner<br>and heat<br>pump         | Ducted air-conditioners<br>and air-to-air heat<br>pumps - Testing and<br>rating for performance                                                              | (500 ~ 320 000) W                                 | SF-4 | N                |
| ISO<br>13253:2017/Amd.<br>1:2020 | Ducted air<br>conditioners<br>and heat<br>pumps | Ducted air conditioners<br>and heat pumps -<br>Testing and rating for<br>performance                                                                         | (1 160 ~ 87 000) W                                | BS-2 | N                |
| ISO<br>13253:2017/Amd<br>1:2020  | Air-<br>conditioner,<br>heat pump               | Ducted air-conditioners<br>and air-to-air heat<br>pumps - Testing and<br>rating for performance                                                              | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| ISO<br>13253:2017/Amd<br>1:2020  | Air-<br>conditioner<br>and heat<br>pump         | Ducted air-conditioners<br>and air-to-air heat<br>pumps - Testing and<br>rating for performance                                                              | (500 ~ 320 000) W                                 | SF-4 | N                |
| ISO 13256-1:1998                 | Water-source<br>heat pumps                      | Water-source heat<br>pumps - Testing and<br>rating for performance -<br>Part 1 : Water-to-air and<br>brine-to-air heat pumps                                 | (1 160 ~ 87 000) W                                | BS-2 | N                |
| ISO 13256-1:2021                 | heat pump                                       | Water-Source Heat<br>Pumps - Testing And<br>Rating For Performance<br>- Part 1: Water-To-Air<br>And Brine-To-Air Heat<br>Pumps                               | (500 ~ 320 000) W                                 | SF-4 | N                |
| ISO 13256-2:1998                 | Water-source<br>heat pumps                      | Water-source heat<br>pumps - Testing and<br>rating for performance -<br>Part 2 : Water-to-water<br>and brine-to-water heat<br>pumps                          | (1 160 ~ 87 000) W                                | BS-2 | N                |

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| Test method                | Materials/<br>Products                                           | Standard<br>designation                                                                                                                                                 | Test range                                  | Site | Field<br>testing |
|----------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------|------------------|
| ISO 13256-2:2021           | heat pump                                                        | Water-source heat pumps - Testing and rating for performance - Part 2 : Water-to water and brine-to-water heat pumps                                                    | (3 000 ~ 200 000) W                         | SF-4 | N                |
| ISO 15042:2011             | heat pump                                                        | Multiple split-system air conditioners and air-to-air heat pumps - Testing and rating for performance                                                                   | (3 000 ~ 320 000) W                         | SF-4 | N                |
| ISO 15042:2011             | Multiple split-system air-conditioners and air-to-air heat pumps | Multiple split-system air-conditioners and air-to-air heat pumps - Testing and rating for performance                                                                   | (1 160 ~ 87 000) W                          | BS-2 | Y                |
| ISO 15042:2017             | heat pump                                                        | Multiple split-system air conditioners and air-to-air heat pumps - Testing and rating for performance                                                                   | (3 000 ~ 320 000) W                         | SF-4 | N                |
| ISO 15042:2017             | Multiple split-system air-conditioners and air-to-air heat pumps | Multiple split-system air-conditioners and air-to-air heat pumps - Testing and rating for performance                                                                   | (1 160 ~ 87 000) W                          | BS-2 | N                |
| ISO 15042:2017/AMD 1:2020  | heat pump                                                        | Multiple split-system air conditioners and air-to-air heat pumps -Testing and rating for performance - Amendment 1                                                      | (3 000 ~ 320 000) W                         | SF-4 | N                |
| ISO 15042:2017/Amd. 1:2020 | Multiple split-system air-conditioners and air-to-air heat pumps | Multiple split-system air-conditioners and air-to-air heat pumps - Testing and rating for performance                                                                   | (1 160 ~ 87 000) W                          | BS-2 | N                |
| ISO 16358-1:2013           | Air-conditioner, heat pump                                       | Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part 1 : Cooling seasonal performance factor | Cooling/Heating capacity (2 900 ~ 18 600) W | BS-1 | N                |

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| Test method                         | Materials/<br>Products                                         | Standard<br>designation                                                                                                                                                                          | Test range                                        | Site | Field<br>testing |
|-------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------|------------------|
| ISO 16358-1:2013                    | Air-<br>conditioner<br>and heat<br>pump                        | Air-cooled air<br>conditioners and air-to-<br>air heat pumps - Testing<br>and calculating methods<br>for seasonal<br>performance factors -<br>Part 1 : Cooling seasonal<br>performance factor    | (500 ~ 320 000) W                                 | SF-4 | N                |
| ISO 16358-1:2013                    | Air-cooled air<br>conditioners<br>and air-to-air<br>heat pump  | Air-cooled air<br>conditioners and air-to-<br>air heat pumps - Testing<br>and calculating methods<br>for seasonal<br>performance factors -<br>Part1 : Cooling seasonal<br>performance factor     | (1 160 ~ 87 000) W                                | BS-2 | N                |
| ISO 16358-<br>1:2013/Amd<br>1:2019  | Air-<br>conditioner,<br>heat pump                              | Air-cooled air<br>conditioners and air-to-<br>air heat pumps -<br>Testing and calculating<br>methods for seasonal<br>performance factors<br>- Part 1 : Cooling<br>seasonal performance<br>factor | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| ISO 16358-<br>1:2013/Amd<br>1:2019  | Air-<br>conditioner<br>and heat<br>pump                        | Air-cooled air<br>conditioners and air-to-<br>air heat pumps - Testing<br>and calculating methods<br>for seasonal<br>performance factors -<br>Part 1 : Cooling seasonal<br>performance factor    | (500 ~ 320 000) W                                 | SF-4 | N                |
| ISO 16358-<br>1:2013/Amd.1:20<br>19 | Air-cooled air<br>conditioners<br>and air-to-air<br>heat pump  | Air-cooled air<br>conditioners and air-to-<br>air heat pumps - Testing<br>and calculating methods<br>for seasonal<br>performance factors -<br>Part1 : Cooling seasonal<br>performance factor     | (1 160 ~ 87 000) W                                | BS-2 | N                |
| ISO 16358-<br>1:2013/Cor 1<br>:2013 | Air-cooled air<br>conditioners<br>and air-to-air<br>heat pumps | Air-cooled air<br>conditioners and air-to-<br>air heat pumps - Testing<br>and calculating methods<br>for seasonal<br>performance factors<br>- Part 1 : Cooling<br>seasonal performance<br>factor | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |

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| Test method                 | Materials/<br>Products                               | Standard<br>designation                                                                                                                                                 | Test range                                  | Site | Field<br>testing |
|-----------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------|------------------|
| ISO 16358-1:2013/Cor 1:2013 | Air-conditioner and heat pump                        | Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part 1 : Cooling seasonal performance factor | (500 ~ 320 000) W                           | SF-4 | N                |
| ISO 16358-2:2013            | Air-conditioner, heat pump                           | Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part 2 : Heating seasonal performance factor | Cooling/Heating capacity (2 900 ~ 18 600) W | BS-1 | N                |
| ISO 16358-2:2013            | Air-conditioner and heat pump                        | Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part 2 : Heating seasonal performance factor | (500 ~ 320 000) W                           | SF-4 | N                |
| ISO 16358-2:2013            | Air-cooled air conditioners and air-to-air heat pump | Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part2 : Heating seasonal performance factor  | (1 160 ~ 87 000) W                          | BS-2 | N                |
| ISO 16358-2:2013/Cor 1:2013 | Air-conditioner and heat pump                        | Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part 2 : Heating seasonal performance factor | (500 ~ 320 000) W                           | SF-4 | N                |
| ISO 16358-3:2013            | Air-conditioner, heat pump                           | Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part 3 : Annual performance factor           | Cooling/Heating capacity (2 900 ~ 18 600) W | BS-1 | N                |

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| Test method               | Materials/<br>Products                                    | Standard<br>designation                                                                                                                                       | Test range                                  | Site | Field<br>testing |
|---------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------|------------------|
| ISO 16358-3:2013          | Air-conditioner and heat pump                             | Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part 3 : Annual performance factor | (500 ~ 320 000) W                           | SF-4 | N                |
| ISO 16358-3:2013          | Air-cooled air conditioners and air-to-air heat pump      | Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part3 : Annual performance factor  | (1 160 ~ 87 000) W                          | BS-2 | N                |
| ISO 16494:2014            | Heat recovery ventilators and energy recovery ventilators | Heat recovery ventilators and energy recovery ventilators -Method of test for performance                                                                     | 5 000 Nm <sup>3</sup> /h or less            | BS-2 | N                |
| ISO 18326:2018            | Air-conditioner and heat pump                             | Non-ducted portable air-cooled air conditioners and air-to-air heat pumps having a single exhaust duct - Testing and rating for performance                   | (500 ~ 320 000) W                           | SF-4 | N                |
| ISO 18326:2018/Amd 1:2021 | Air-conditioner and heat pump                             | Non-ducted portable air-cooled air conditioners and air-to-air heat pumps having a single exhaust duct - Testing and rating for performance                   | (500 ~ 320 000) W                           | SF-4 | N                |
| ISO 5151:2010             | Air-conditioner and heat pump                             | Non-ducted air conditioners and heat pumps - Testing and rating for performance                                                                               | (500 ~ 320 000) W                           | SF-4 | N                |
| ISO 5151:2010             | Non-ducted air conditioners and heat pumps                | Non-ducted air conditioners and heat pumps - Testing and rating for performance                                                                               | (1 160 ~ 87 000) W                          | BS-2 | Y                |
| ISO 5151:2010             | Air-conditioner, heat pump                                | Non-ducted air conditioners and heat pumps - Testing and rating for performance                                                                               | Cooling/Heating capacity (2 900 ~ 18 600) W | BS-1 | N                |

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| Test method                     | Materials/<br>Products                           | Standard<br>designation                                                                                                                           | Test range                                        | Site | Field<br>testing |
|---------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------|------------------|
| ISO 5151:2017                   | Non-ducted air<br>conditioners and heat<br>pumps | Non-ducted air<br>conditioners and heat<br>pumps - Testing and<br>rating for performance                                                          | (1 160 ~ 87 000) W                                | BS-2 | Y                |
| ISO 5151:2017                   | Air-<br>conditioner<br>and heat<br>pump          | Non-ducted air<br>conditioners and heat<br>pumps - Testing and<br>rating for performance                                                          | (500 ~ 320 000) W                                 | SF-4 | N                |
| ISO 5151:2017                   | Air-<br>conditioner,<br>heat pump                | Non-ducted air<br>conditioners and heat<br>pumps - Testing and<br>rating for performance<br>5. Cooling tests<br>6. Heating tests                  | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| ISO<br>5151:2017/Amd<br>1:2020  | Air-<br>conditioner,<br>heat pump                | Non-ducted air<br>conditioners and heat<br>pumps - Testing and<br>rating for performance<br>5. Cooling tests<br>6. Heating tests                  | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| ISO<br>5151:2017/Amd.1<br>:2020 | Non-ducted air<br>conditioners and heat<br>pumps | Non-ducted air<br>conditioners and heat<br>pumps - Testing and<br>rating for performance                                                          | (1 160 ~ 87 000) W                                | BS-2 | Y                |
| ISO<br>5151:2017/Amd<br>1:2020  | Air-<br>conditioner<br>and heat<br>pump          | Non-ducted air<br>conditioners and heat<br>pumps - Testing and<br>rating for performance                                                          | (500 ~ 320 000) W                                 | SF-4 | N                |
| ISO/TS<br>16491:2012            | Air-<br>conditioner<br>and heat<br>pump          | Guidelines for the<br>evaluation of<br>uncertainty of<br>measurement in air<br>conditioner and heat<br>pump cooling and<br>heating capacity tests | (500 ~ 320 000) W                                 | SF-4 | N                |
| ISO/TS<br>16491:2012            | Air-<br>conditioner,<br>heat pump                | Guidelines for the<br>evaluation of<br>uncertainty of<br>measurement in air<br>conditioner and heat<br>pump cooling and<br>heating capacity tests | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W | BS-1 | N                |
| JIS C 9220:2011                 | Electric water<br>heater                         | Residential Heatpump<br>Water Heaters                                                                                                             | (1 160 ~ 87 000) W                                | BS-2 | N                |
| JIS C 9220:2018                 | Energy<br>Efficiency                             | Residential heat pump<br>water heaters                                                                                                            | (500 ~ 320 000) W                                 | SF-4 | N                |
| JIS C 9612-1994                 | Air<br>conditioner                               | Room air conditioner                                                                                                                              | (1 160 ~ 87 000) W                                | BS-2 | N                |

Korea Laboratory Accreditation Scheme(KOLAS) is a signatory to the ILAC Mutual Recognition Arrangement



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| Test method                                       | Materials/<br>Products                                                | Standard<br>designation                                                                                                                                          | Test range                                               | Site | Field<br>testing |
|---------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------|------------------|
| JIS C 9612:2013                                   | Air<br>conditioner                                                    | Room air conditioners                                                                                                                                            | (1 160 ~ 87 000) W                                       | BS-2 | N                |
| JIS C 9612:2013                                   | Air<br>conditioner                                                    | Room air conditioner                                                                                                                                             | (500 ~ 320 000) W                                        | SF-4 | N                |
| JIS C 9612:2013                                   | Air-<br>conditioner                                                   | Room air conditioners                                                                                                                                            | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W        | BS-1 | N                |
| Jordanian<br>Technical<br>Regulation<br>2107:2013 | Air<br>conditioner                                                    | Technical Regulation on<br>eco-design<br>requirements for Air<br>Conditioners and<br>Comfort Fans                                                                | (1 160 ~ 87 000) W                                       | BS-2 | N                |
| Jordanian<br>Technical<br>Regulation<br>2107:2013 | Air<br>conditioner                                                    | Technical Regulation on<br>eco-design requirements<br>for Air Conditioners and<br>Comfort Fans                                                                   | (500 ~ 320 000) W                                        | SF-4 | N                |
| Jordanian<br>Technical<br>Regulation<br>2108:2013 | Air<br>conditioner                                                    | Energy efficiency<br>labeling of air<br>conditioners                                                                                                             | (500 ~ 320 000) W                                        | SF-4 | N                |
| Jordanian<br>Technical<br>Regulation<br>2108:2013 | Air<br>conditioner                                                    | Energy efficiency<br>labeling of air<br>conditioners                                                                                                             | (1 160 ~ 87 000) W                                       | BS-2 | N                |
| KS 2449-1:2013                                    | Rotating<br>electrical<br>machines                                    | Rotating electrical<br>machines - General<br>requirements<br>Part 1: Three-phase<br>cage induction motors -<br>Minimum energy<br>performance standards<br>(MEPS) | three phase : 600 V or<br>less<br>Power : 185 kW or less | BS-2 | Y                |
| KS 2463:2013                                      | Non-ducted<br>air<br>conditioners                                     | Non - ducted air<br>conditioners - Testing<br>and rating performance                                                                                             | (1 160 ~ 87 000) W                                       | BS-2 | N                |
| KS 2463:2019                                      | Air<br>conditioner                                                    | Non-ducted air<br>conditioners - Testing<br>and rating performance                                                                                               | (500 ~ 320 000) W                                        | SF-4 | N                |
| KS 2464-1:2013                                    | Household<br>electrical<br>appliances-<br>Refrigeration<br>appliances | Performance of<br>household electrical<br>appliances-Refrigeration<br>appliances Part 1:<br>Energy consumption<br>and performance                                | 10 kW or less                                            | BS-2 | N                |



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| Test method    | Materials/<br>Products                                   | Standard<br>designation                                                                                                                     | Test range                       | Site | Field<br>testing |
|----------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|------------------|
| KS 2464-2:2013 | Household electrical appliances-Refrigeration appliances | Performance of household electrical appliances-Refrigerating appliances Part 2: Minimum energy performances standard requirements           | 10 kW or less                    | BS-2 | N                |
| KS B 6275:2018 | Water chilling unit                                      | Reciprocating water-chillers                                                                                                                | (1 160 ~ 87 000) W               | BS-2 | N                |
| KS B 6275:2018 | Air handling unit                                        | Water-chilling unit                                                                                                                         | (500 ~ 320 000) W                | SF-4 | N                |
| KS B 6311:2022 | Centrifugal fan                                          | Testing methods for fans                                                                                                                    | 3 600 m <sup>2</sup> /h or less  | BS-2 | N                |
| KS B 6311:2022 | Air handling unit                                        | Testing methods for industrial fans                                                                                                         | 48 000 m <sup>3</sup> /h or less | SF-4 | N                |
| KS B 6377:2008 | Air handling unit                                        | Fancoil units                                                                                                                               | (500 ~ 320 000) W                | SF-4 | N                |
| KS B 6377:2008 | Fan coil unit                                            | Fancoil units                                                                                                                               | (1 160 ~ 30 000) W               | BS-2 | N                |
| KS B 6879:2020 | Heat recovery ventilations                               | Heat recovery ventilations                                                                                                                  | 3 000 m <sup>3</sup> /h less     | BS-2 | N                |
| KS B 8052:2011 | Gas engine heat pump, Non-ducted air conditioners        | Gas engine driven heat pump air conditioners - Non-ducted gas engine driven heat pump air conditioners - Testing and rating for performance | (1 160 ~ 87 000) W               | BS-2 | N                |
| KS B 8052:2022 | heat pump                                                | Gas heat pumps-Non-ducted appliances - Testing and rating for performance                                                                   | (3 000 ~ 320 000) W              | SF-4 | N                |
| KS B 8053:2015 | Gas engine heat pump, Ducted air conditioners            | Gas engine driven heat pump - ducted cooling and Heating appliances - Performance testing for rating and operating                          | (1 160 ~ 87 000) W               | BS-2 | N                |
| KS B 8053:2022 | heat pump                                                | Gas heat pump-Ducted appliances - Testing and rating for performance                                                                        | (3 000 ~ 320 000) W              | SF-4 | N                |
| KS B 8292:2015 | Water-to-water source heat pump                          | Water-to-water ground source heat pump unit                                                                                                 | (1 160 ~ 30 000) W               | BS-2 | N                |
| KS B 8292:2015 | heat pump                                                | Water-to-water ground source heat pump unit                                                                                                 | (3 000 ~ 200 000) W              | SF-4 | N                |

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| Test method            | Materials/<br>Products                                                               | Standard<br>designation                                                                                             | Test range                                                                                  | Site | Field<br>testing |
|------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|------------------|
| KS B 8293:2016         | Water-to-air<br>source heat<br>pump                                                  | Water-to-air and brine-<br>to-air heat pumps unit                                                                   | (1 160 ~ 87 000) W                                                                          | BS-2 | N                |
| KS B 8293:2016         | heat pump                                                                            | Water-to-air and brine-<br>to-air heat pumps unit                                                                   | (500 ~ 320 000) W                                                                           | SF-4 | N                |
| KS B 8294:2016         | Water-to-air<br>source multi-<br>type heat<br>pump                                   | Water-to-air ground<br>source multi heat pump<br>unit                                                               | (1 160 ~ 87 000) W                                                                          | BS-2 | N                |
| KS B 8294:2016         | heat pump                                                                            | Water-to-air ground<br>source multi heat pump<br>unit                                                               | (500 ~ 320 000) W                                                                           | SF-4 | N                |
| KS B ISO<br>15042:2017 | heat pump                                                                            | Multiple split-system air<br>conditioners and air-to-<br>air heat pumps - Testing<br>and rating for<br>performance  | (3 000 ~ 320 000) W                                                                         | SF-4 | N                |
| KS B ISO<br>15042:2017 | Multi-type air<br>conditioners,<br>heat pump                                         | Multiple split-system air-<br>conditioners and air-to-<br>air heat pumps - Testing<br>and rating for<br>performance | (1 160 ~ 87 000) W                                                                          | BS-2 | N                |
| KS B ISO<br>15042:2018 | Multiple air-<br>conditioner,<br>heat pump                                           | Multiple split-system air-<br>conditioners and air-to-<br>air heat pumps - Testing<br>and rating for<br>performance | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W                                           | BS-1 | N                |
| KS C 8561:2020         | Photovoltaic<br>(PV) module                                                          | Crystalline silicone<br>photovoltaic(PV)<br>module(performance)                                                     | 40 A / 500 V or less                                                                        | SF-1 | Y                |
| KS C 8561:2020         | Crystalline<br>silicon solar<br>power module                                         | Crystalline silicone<br>photovoltaic(PV)<br>module(performance)                                                     | 10 A / 120 V or less<br>20 A / 60 V or less<br>5 A / 150 V or less<br>2.5 A / 300 V or less | BS-2 | N                |
| KS C 8562:2015         | Thin film<br>silicon solar<br>power module                                           | Thin film<br>photovoltaic(PV)<br>module(performance)                                                                | 10 A / 120 V or less<br>20 A / 60 V or less<br>5 A / 150 V or less<br>2.5 A / 300 V or less | BS-2 | N                |
| KS C 8565:2023         | Mid-large<br>solar power<br>inverter(system-<br>linked type,<br>stand-alone<br>type) | Photovoltaic inverter<br>(grid-tied type, stand-<br>alone type)                                                     | 1 kW or more 250 kW<br>or less<br>(DC 1 500 V or less, AC<br>500 V or less)                 | BS-2 | N                |
| KS C 8567:2019         | Solar power<br>junction box                                                          | Photovoltaic combiner<br>box                                                                                        | DC 1 500 V or less                                                                          | BS-2 | N                |

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| Test method    | Materials/<br>Products                           | Standard<br>designation                                                                                                                                                                                                   | Test range                                                                                  | Site | Field<br>testing |
|----------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|------------------|
| KS C 8571:2015 | Small wind<br>turbine<br>inverter                | Inverter for small wind<br>turbines                                                                                                                                                                                       | 30 kW or less<br>(DC 1 000 V, AC 500<br>V)                                                  | BS-2 | N                |
| KS C 8577:2022 | Building<br>Integrated<br>Photovoltaic<br>Module | Building integrated<br>photovoltaics(BIPV)<br>modules-The<br>requirement of<br>performance evaluation<br><Exception><br>6.15 Ball drop test<br>6.20 Fire test                                                             | 10 A / 120 V or less<br>20 A / 60 V or less<br>5 A / 150 V or less<br>2.5 A / 300 V or less | BS-2 | N                |
| KS C 8577:2022 | Photovoltaic<br>(PV) module                      | Building integrated<br>photovoltaics(BIPV)<br>modules-The<br>requirement of<br>performance evaluation                                                                                                                     | 40 A / 100 V or less                                                                        | SF-1 | Y                |
| KS C 9301:2019 | Electric fan                                     | Electric fans and ceiling<br>fans<br>12 Test Procedures<br>12.6 Temperature rise<br>test<br>12.7 Insulation<br>Resistance Test<br>12.17 Air flow Test                                                                     | (20 ~ 41) cm                                                                                | SF-4 | N                |
| KS C 9304:2020 | Ventilation<br>fan                               | Ventilating fans                                                                                                                                                                                                          | 3 600 m <sup>3</sup> /h or less                                                             | BS-2 | N                |
| KS C 9306:2017 | Airconditioner                                   | Air-conditioner                                                                                                                                                                                                           | (1 160 ~ 35 000) W                                                                          | BS-2 | N                |
| KS C 9306:2017 | Air-<br>conditioner                              | Air-conditioner<br>9.3 Cooling Capacity<br>tests<br>9.4 Energy consumption<br>test for Cooling<br>9.7 Heating Capacity<br>tests<br>9.8 Energy consumption<br>test for Heating                                             | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W                                           | BS-1 | N                |
| KS C 9306:2017 | Air<br>conditioner                               | Air conditioners<br><Exception><br>6. Performance<br>6.22 Electromagnetic<br>compatibility<br>performance<br>9. Test<br>9.2 Structure test,<br>Material test<br>9.20 Electromagnetic<br>compatibility<br>performance test | (500 ~ 320 000) W                                                                           | SF-4 | N                |

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| Test method                 | Materials/<br>Products                   | Standard<br>designation                                                                                                                                                                                                                                                                                                                                        | Test range                                                                                       | Site | Field<br>testing |
|-----------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|------------------|
| KS C 9317:2013              | Electric<br>dehumidifier                 | Electric dehumidifier<br>6.1 Refrigerant Leaks<br>6.2 Dehumidifying<br>capacity<br>6.3 Power<br>Consumption<br>6.4 Temperature<br>6.5 Overload<br>performance<br>6.6 Insulation<br>Resistance<br>6.7 Withstand voltage<br>6.8 Low temperature<br>performance<br>6.9 Dehumidifying<br>water treatment<br>6.10 Insulation<br>performance of<br>overflowing water | 500 W or less                                                                                    | BS-2 | N                |
| KS C 9317:2013              | dehumidifier                             | Dehumidifiers<br><Exception><br>6. Performance<br>6.4 Temperature<br>6.11 Electro Magnetic<br>Interference<br>9. Test<br>9.2 Structure test<br>9.13 Electro Magnetic<br>Interference test                                                                                                                                                                      | Input Power : Max .<br>500 W                                                                     | SF-4 | N                |
| KS C 9608:2013              | Electric<br>appliances for<br>households | Electric washing<br>machine                                                                                                                                                                                                                                                                                                                                    | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| KS C IEC 60034-<br>1:2019   | Rotating<br>electrical<br>machines       | Rotating electrical<br>machines - Part 1:<br>Rating and performance                                                                                                                                                                                                                                                                                            | single phase: 400 V or<br>less<br>three phase: 600 V or<br>less<br>Power: 375 kW or less         | BS-2 | Y                |
| KS C IEC 60034-2-<br>1:2019 | Rotating<br>electrical<br>machines       | Rotating electrical<br>machines - Part 2-1:<br>Standard methods for<br>determining losses and<br>efficiency from tests<br>(excluding machines for<br>traction vehicles)                                                                                                                                                                                        | single phase: 400 V or<br>less<br>three phase: 600 V or<br>less<br>Power: 280 kW or less         | BS-2 | Y                |
| KS C IEC<br>60456:2015      | Electric<br>appliances for<br>households | Clothes washing<br>machines for household<br>use - methods for<br>measuring the<br>performance                                                                                                                                                                                                                                                                 | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |

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| Test method               | Materials/<br>Products                                               | Standard<br>designation                                                                                                                                                                 | Test range                                                                                       | Site | Field<br>testing |
|---------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC<br>61215:2005    | Crystalline<br>Silicon<br>Terrestrial<br>Photovoltaic<br>(PV) Module | Crystalline Silicon<br>Terrestrial Photovoltaic<br>(PV) Modules - Design<br>Qualification and Type<br>Approval                                                                          | 10 A / 120 V or less<br>20 A / 60 V or less<br>5 A / 150 V or less<br>2.5 A / 300 V or less      | BS-2 | N                |
| KS C IEC<br>61646:2008    | Thin-film<br>terrestrial<br>photovoltaic<br>(PV) modules             | Thin-film terrestrial<br>photovoltaic (PV)<br>modules - Design<br>qualification and type<br>approval                                                                                    | 10 A / 120 V or less<br>20 A / 60 V or less<br>5 A / 150 V or less<br>2.5 A / 300 V or less      | BS-2 | N                |
| KS C IEC 61730-<br>1:2013 | Photovoltaic<br>power module                                         | Photovoltaic (PV)<br>module safety<br>qualification - Part 1 :<br>Requirements for<br>construction                                                                                      | 10 A / 120 V or less<br>20 A / 60 V or less<br>5 A / 150 V or less<br>2.5 A / 300 V or less      | BS-2 | N                |
| KS C IEC 61730-<br>2:2012 | Photovoltaic<br>module                                               | Photovoltaic (PV)<br>module safety<br>qualification - Part 2 :<br>Requirements for testing<br>10.8 Fire test                                                                            | 10 A / 120 V or less<br>20 A / 60 V or less<br>5 A / 150 V or less<br>2.5 A / 300 V or less      | SF-1 | N                |
| KS C IEC 61730-<br>2:2012 | Photovoltaic<br>power module                                         | Photovoltaic (PV)<br>module safety<br>qualification - Part 2 :<br>Requirements for testing<br><Exception><br>10.8 Fire test                                                             | 10 A / 120 V or less<br>20 A / 60 V or less<br>5 A / 150 V or less<br>2.5 A / 300 V or less      | BS-2 | N                |
| KS C IEC 62109-<br>2:2011 | Inverter                                                             | Safety of power<br>converters for use in<br>photovoltaic power<br>systems-Part 2:<br>Particular requirements<br>for inverters<br>4.8 Additional tests for<br>grid-interactive inverters | 1 kW or more 250 kW<br>or less<br>(DC 1 500 V, AC 500<br>V)                                      | BS-2 | N                |
| KS C IEC<br>62301:2017    | Household<br>electrical<br>appliances                                | Household electrical<br>appliances -<br>Measurement of<br>standby power                                                                                                                 | 500 W or less                                                                                    | BS-1 | N                |
| KS C IEC<br>62552:2014    | Household<br>Refrigerating<br>appliances                             | Household refrigerating<br>appliances -<br>Characteristics and test<br>methods                                                                                                          | 10 kW or less                                                                                    | BS-2 | N                |
| KS C IEC<br>62552:2014    | Household<br>refrigerating<br>appliances                             | Household refrigerating<br>appliances -<br>Characteristics and test<br>methods                                                                                                          | (0 ~ 600) V<br>(0 ~ 20) A                                                                        | BS-1 | N                |
| MS IEC<br>60456:2012      | Electric<br>appliances for<br>households                             | Clothes Washing<br>machines for household<br>use - Methods for<br>measuring the<br>performance                                                                                          | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |

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| Test method             | Materials/<br>Products                   | Standard<br>designation                                                                                                                                               | Test range                                                                                       | Site | Field<br>testing |
|-------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|------------------|
| MS IEC<br>62301:2012    | Household<br>electrical<br>appliances    | Household electrical<br>appliance -<br>Measurement of<br>standby power                                                                                                | 500 W or less                                                                                    | BS-1 | N                |
| MS IEC<br>62552:2011    | Household<br>refrigerating<br>appliances | Household refrigerating<br>appliances -<br>Characteristic and test<br>methods                                                                                         | (0 ~ 600) V<br>(0 ~ 20) A                                                                        | BS-1 | N                |
| MS ISO 5151:2012        | Air-<br>conditioner<br>and heat<br>pump  | Non-ducted air<br>conditioners and heat<br>pumps - testing and<br>rating for performance                                                                              | (500 ~ 320 000) W                                                                                | SF-4 | N                |
| MS ISO 5151:2012        | Air-<br>conditioner,<br>heat pump        | Non-ducted air<br>conditioners and heat<br>pumps - testing and<br>rating for performance                                                                              | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W                                                | BS-1 | N                |
| NMX-J-585-ANCE-<br>2007 | Electric<br>appliances for<br>households | HOUSEHOLD AND<br>SIMILAR ELECTRICAL<br>APPLIANCES-TEST<br>METHODS FOR ENERGY<br>PERFORMANCE, WATER<br>CONSUMPTION, AND<br>CAPACITY OF<br>HOUSEHOLD CLOTHES<br>WASHERS | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| NMX-J-585-ANCE-<br>2014 | Electric<br>appliances for<br>households | HOUSEHOLD AND<br>SIMILAR ELECTRICAL<br>APPLIANCES-TEST<br>METHODS FOR ENERGY<br>PERFORMANCE, WATER<br>CONSUMPTION, AND<br>CAPACITY OF<br>HOUSEHOLD CLOTHES<br>WASHERS | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| NOM-005-<br>ENER:2012   | Electric<br>appliances for<br>households | Energy efficiency of<br>household washing<br>machines. Limits, test<br>method and labelling                                                                           | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| NOM-005-<br>ENER:2016   | Electric<br>appliances for<br>households | Energy efficiency of<br>household washing<br>machines. Limits, test<br>method and labelling                                                                           | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| NOM-011-ENER-<br>2006   | Air<br>conditioner                       | Energy efficiency of<br>central, package or split<br>type air conditioners.<br>Limits, test methods and<br>labeling                                                   | (500 ~ 20 000) W                                                                                 | SF-4 | N                |



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| Test method            | Materials/<br>Products             | Standard<br>designation                                                                                                                                             | Test range                                                                                 | Site | Field<br>testing |
|------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------|------------------|
| NOM-011-ENER-2006      | Air conditioner                    | Energy efficiency of central, package or split type air conditioners, limited, test methods and labeling                                                            | (1 160 ~ 87 000) W                                                                         | BS-2 | Y                |
| NOM-015-ENER-2012      | Refrigerator                       | Energy efficiency of refrigerator and freezer appliances, limits, test methods and labeling                                                                         | 10 kW or less                                                                              | BS-2 | Y                |
| NOM-021-ENER-SCFI-2017 | Air conditioner                    | Energy efficiency and user safety requirements for room air conditioners limits, test methods and labelling                                                         | (1 160 ~ 87 000) W                                                                         | BS-2 | Y                |
| NOM-023-ENER-2010      | Air conditioner                    | Energy efficiency for separated assemblies, free delivery and non-ducted air conditioners, limits, test methods and labelling                                       | (1 160 ~ 87 000) W                                                                         | BS-2 | Y                |
| NOM-026-ENER-2015      | Air conditioner                    | Energy efficiency in split type (Inverter) air conditioners with variable refrigerant flow, free download and without air ducts, limits, test methods and labelling | (1 160 ~ 87 000) W                                                                         | BS-2 | Y                |
| NOM-026-ENER-2015      | Air conditioner                    | Energy efficiency in split-type(Inverter) air conditioners with variable refrigerant flow, free download and without air ducts, Limits, test methods and labelling  | (500 ~ 20 000) W                                                                           | SF-4 | N                |
| NTC 5913:2012          | Electric appliances for households | HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES. ELECTRIC WASHING MACHINES. TEST METHODS FOR ENERGY CONSUMPTION, WATER CONSUMPTION AND VOLUME CAPACITY                  | Input Power : Max. 5 kW<br>Input Voltage : Single Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| NTE INEN 2206:2011     | Refrigerator                       | Household refrigerating appliances with or without frosting. Refrigerators with or without low Temperature compartment. Inspection Requirements                     | 10 kW or less                                                                              | BS-2 | N                |



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| Test method                     | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                  | Test range                                                                                       | Site | Field<br>testing |
|---------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|------------------|
| NTE INEN<br>2206:2019           | Household<br>refrigerating<br>appliances  | Household refrigerating<br>appliances<br>Requirements and test<br>methods                                                                                                                                                                                                                                                | (0 ~ 600) V<br>(0 ~ 20) A                                                                        | BS-1 | N                |
| NTE INEN<br>2495:2012           | Air<br>conditioner                        | Energy efficiency of<br>non-ducted air<br>conditioners.<br>Requirements                                                                                                                                                                                                                                                  | (1 160 ~ 87 000) W                                                                               | BS-2 | Y                |
| NTE INEN<br>2495:2012           | Air<br>conditioner                        | Energy efficiency of<br>non-ducted air<br>conditioners.<br>Requirements                                                                                                                                                                                                                                                  | (500 ~ 20 000) W                                                                                 | SF-4 | N                |
| NTE INEN<br>2659:2013           | Electric<br>appliances for<br>households  | Appliances and similar.<br>Clothes washing<br>machine. Test methods<br>for energy Consumption<br>Water consumption and<br>volumetric capacity.                                                                                                                                                                           | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| OS 1651/2022                    | Electric<br>appliances for<br>households  | Electrical Clothes<br>Washing Machines -<br>Energy and Water<br>Performance<br>Requirements and<br>Consumption Efficiency<br>Labeling                                                                                                                                                                                    | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50 Hz    | BS   | N                |
| Portaria INMETRO<br>No.121/2022 | Electrical<br>machinery for<br>households | Portaria INMETRO<br>No.121/2022 (ANEXO<br>B-ENSAIOS DE<br>DESEMPENHO-METOD<br>OLOGIA)                                                                                                                                                                                                                                    | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| RTCA 23.01.78:20<br>/2021       | Air<br>conditioner                        | E L E C T R I C A L<br>P R O D U C T S . I N V E R T E R<br>S P L I T T Y P E A I R<br>C O N D I T I O N E R S , W I T H<br>V A R I A B L E<br>R E F R I G E R A N T F L O W ,<br>F R E E D I S C H A R G E A N D<br>W I T H O U T A I R D U C T S .<br>E N E R G Y E F F I C I E N C Y<br>S P E C I F I C A T I O N S . | (1 160 ~ 87 000) W                                                                               | BS-2 | N                |
| RTE INEN<br>035:2009            | Household<br>refrigerating<br>appliances  | Energy efficiency in<br>refrigeration appliances<br>for household use.<br>Report power<br>consumption test<br>methods and labeling                                                                                                                                                                                       | (0 ~ 600) V<br>(0 ~ 20) A                                                                        | BS-1 | N                |
| RTE INEN<br>035:2009            | Air<br>conditioner                        | Energy efficiency in<br>refrigeration appliances<br>for household use.<br>Report power<br>consumption, test<br>methods and labeling                                                                                                                                                                                      | 10 kW or less                                                                                    | BS-2 | N                |

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| Test method                       | Materials/<br>Products                   | Standard<br>designation                                                                              | Test range                                                                                       | Site | Field<br>testing |
|-----------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|------------------|
| RTE INEN<br>072:2012              | Air<br>conditioner                       | Energy efficiency for<br>non-ducted air<br>conditioners                                              | (1 160 ~ 87 000) W                                                                               | BS-2 | Y                |
| RTE INEN<br>072:2012              | Air<br>conditioner                       | Energy efficiency for<br>non-ducted air<br>conditioners                                              | (500 ~ 20 000) W                                                                                 | SF-4 | N                |
| RTE INEN<br>077:2013              | Electric<br>appliances for<br>households | Energy efficiency clothes<br>washers household<br>electric. limits test<br>method and labeling       | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| RTE INEN<br>111:2013              | Electric<br>appliances for<br>households | Energy efficiency and<br>labeling of clothes<br>dryers                                               | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| RTE INEN<br>111:2014              | Electric<br>appliances for<br>households | Energy efficiency and<br>labeling of clothes<br>dryers                                               | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| RTE INEN<br>117:2014              | Television                               | Energy efficiency in<br>Television. Energy report<br>test method and<br>labeling                     | (0 ~ 5) kW                                                                                       | BS-1 | N                |
| RTE INEN<br>123:2014              | Electric<br>appliances for<br>households | Energy efficiency for<br>microwave ovens                                                             | Input Power : Max. 3<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| RTE INEN<br>124:2014              | Electric<br>appliances for<br>households | Energy efficiency and<br>labeling of washer dryer<br>machine                                         | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| Resolution 41012<br>of 2015 RETIQ | Electric<br>appliances for<br>households | TECHNICAL LABELING<br>REGULATIONS                                                                    | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| SANS 50229:2010                   | Electric<br>appliances for<br>households | Electric Clothes Washer-<br>Dryers For Household<br>Use - Methods Of<br>Measuring The<br>Performance | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |

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| Test method                 | Materials/<br>Products             | Standard<br>designation                                                                                                                            | Test range                                                                                 | Site | Field<br>testing |
|-----------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------|------------------|
| SANS 54511-3:2016           | Air-conditioner, heat pump         | Air conditioners liquid chilling packages and heat pumps With electrically driven compressors for space heating and cooling Part 3: Test methods   | Cooling/Heating capacity (2 900 ~ 18 600) W                                                | BS-1 | N                |
| SANS 54511-3:2016 (Ed 2.00) | Air handling unit                  | Air conditioners liquid chilling packages and heat pumps With electrically driven compressors for space heating and cooling Part 3: Test methods   | (500 ~ 320 000) W                                                                          | SF-4 | N                |
| SANS 54511-3:2016 (Ed 2.00) | Air conditioner                    | Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space Heating and cooling Part 3 : Test methods | (1 160 ~ 87 000) W                                                                         | BS-2 | N                |
| SANS 61121:2015             | Electric appliances for households | Tumble Dryers For Household Use - Methods for Measuring The Performance                                                                            | Input Power : Max. 5 kW<br>Input Voltage : Single Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| SANS 62552:2008             | Household refrigerating appliances | Household Refrigerating Appliances - Characteristics and Test Methods                                                                              | (0 ~ 600) V<br>(0 ~ 20) A                                                                  | BS-1 | N                |
| SASO 2663:2014              | Air conditioner                    | Energy labelling and minimum energy performance requirements for air-conditioners                                                                  | (1 160 ~ 87 000) W                                                                         | BS-2 | N                |
| SASO 2663:2018              | Air-conditioner                    | Air conditioners - minimum energy performance, labelling and testing requirements for low capacity                                                 | Cooling/Heating capacity (2 900 ~ 18 600) W                                                | BS-1 | N                |
| SASO 2663:2021              | Air conditioner                    | Air Conditioners - Minimum Energy Performance, Labelling and Testing Requirements for Low Capacity Window and Single-Split Types                   | (500 ~ 20 000) W                                                                           | SF-4 | N                |

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| Test method                | Materials/<br>Products             | Standard<br>designation                                                                                                          | Test range                                  | Site | Field<br>testing |
|----------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------|------------------|
| SASO 2663:2021             | Air-conditioner                    | Air conditioners - minimum energy performance, labelling and testing requirements for low capacity                               | Cooling/Heating capacity (2 900 ~ 18 600) W | BS-1 | N                |
| SASO 2663:2021/AMD 1: 2023 | Air conditioner                    | Air Conditioners - Minimum Energy Performance, Labelling and Testing Requirements for Low Capacity Window and Single-Split Types | (500 ~ 20 000) W                            | SF-4 | N                |
| SASO 2664:2013             | Refrigerator                       | Energy Performance and Capacity of Household Refrigerators, Refrigerators-Freezers, and Freezers                                 | 1 100 L or less                             | BS-2 | N                |
| SASO 2664:2017             | Household refrigerating appliances | Energy Performance and Capacity of Household Refrigerators, Refrigerators - Freezers and Freezers                                | (0 ~ 600) V<br>(0 ~ 20) A                   | BS-1 | N                |
| SASO 2681:2013             | Air conditioner                    | Non-ducted air conditioners and heat pumps - testing and rating for performance                                                  | (500 ~ 320 000) W                           | SF-4 | N                |
| SASO 2681:2013             | Air-conditioner, heat pump         | Non-ducted air conditioners and heat pumps- testing and rating performance                                                       | Cooling/Heating capacity (2 900 ~ 18 600) W | BS-1 | N                |
| SASO 2681:2013             | Air conditioner                    | Non-ducted air conditioners and heat pumps- testing and rating performance                                                       | (1 160 ~ 87 000) W                          | BS-2 | N                |
| SASO 2682:2013             | Air-conditioner, heat pump         | Ducted air - conditioners and air-to-air heat pumps-testing and rating for performance                                           | Cooling/Heating capacity (2 900 ~ 18 600) W | BS-1 | N                |
| SASO 2682:2013             | Air conditioner                    | Ducted air-conditioners and air-to-air heat pumps-testing and rating for performance                                             | (1 160 ~ 87 000) W                          | BS-2 | N                |
| SASO 2682:2013             | Air-conditioner and heat pump      | Ducted air-conditioners and air-to-air heat pumps-testing and rating for performance                                             | (500 ~ 320 000) W                           | SF-4 | N                |

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| Test method    | Materials/<br>Products                   | Standard<br>designation                                                                                    | Test range                                                                                                                                                                                                                                                                                                                                                                                                             | Site | Field<br>testing |
|----------------|------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SASO 2683:2007 | Electric<br>appliances for<br>households | Clothes washing<br>machines for household<br>use - Methods for<br>measuring the<br>performance             | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz                                                                                                                                                                                                                                                                                                                       | BS   | N                |
| SASO 2692:2013 | Electric<br>appliances for<br>households | Energy Labelling<br>Requirement of Clothes<br>Washing Machines for<br>Household Use                        | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz                                                                                                                                                                                                                                                                                                                       | BS   | N                |
| SASO 2693:2007 | Electric<br>appliances for<br>households | Method for Measuring<br>the Performance of<br>Clothes Washing for<br>Household Use                         | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz                                                                                                                                                                                                                                                                                                                       | BS   | N                |
| SASO 2763:2008 | Air<br>conditioner                       | Safety and performance<br>requirements for<br>Window air conditioners<br>and their method of test          | (500 ~ 20 000) W                                                                                                                                                                                                                                                                                                                                                                                                       | SF-4 | N                |
| SASO 2763:2008 | Air-<br>conditioner                      | Safety and performance<br>requirements for<br>Window air-conditioners<br>and their method of test          | Cooling/Heating<br>capacity (2 900 ~ 18<br>600) W                                                                                                                                                                                                                                                                                                                                                                      | BS-1 | N                |
| SASO 2763:2008 | Air<br>conditioner                       | Safety and performance<br>requirements for<br>window air-conditioners<br>and their method of test          | (1 160 ~ 20 000) W                                                                                                                                                                                                                                                                                                                                                                                                     | BS-2 | N                |
| SASO 2870:2018 | Lamps                                    | ENERGY EFFICIENCY,<br>FUNCTIONALITY AND<br>LABELLING<br>REQUIREMENTS FOR<br>LIGHTING PRODUCTS -<br>PART 1  | Indirect and direct<br>general light sources<br>having a luminous flux<br>above 60 lumens or<br>below 12 000 lumens<br>of the following<br>technologies:<br>· Incandescent lamps<br>· Compact fluorescent<br>lamps with integrated<br>ballast(CFLi)<br>· Halogen lamps<br>· Light-emitting<br>diode(LED) lamps<br>(Incandescent retrofit<br>types)<br>· Light-emitting<br>diode(LED) lamps<br>(Halogen retrofit types) | BS-1 | N                |
| SASO 2874:2016 | Air<br>conditioner                       | Commercial Air<br>Conditioners - Minimum<br>Energy Performance<br>Requirements and<br>Testing Requirements | (1 160 ~ 87 000) W                                                                                                                                                                                                                                                                                                                                                                                                     | BS-2 | N                |

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| Test method    | Materials/<br>Products                   | Standard<br>designation                                                                                                                             | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Site | Field<br>testing |
|----------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SASO 2874:2016 | Air<br>conditioner                       | Commercial Air<br>Conditioners - Minimum<br>Energy Performance<br>Requirements and<br>Testing Requirements                                          | (3 000 ~ 320 000) W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SF-4 | N                |
| SASO 2883:2017 | Electric<br>appliances for<br>households | Electrical Clothes Dryers<br>- Energy Performance<br>Requirements and<br>Labelling                                                                  | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BS   | N                |
| SASO 2885:2018 | Electric<br>appliances for<br>households | Electrical Clothes<br>Washing Machines -<br>Energy and Water<br>Performance<br>Requirements and<br>Labelling                                        | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BS   | N                |
| SASO 2893:2018 | Rotating<br>electrical<br>machines       | ROTATING ELECTRICAL<br>MACHINES - Part 30-1:<br>Efficiency classes of line<br>operated AC motors (IE<br>code) (IEC 60034-30-<br>1:2014 Ed 1.0, MOD) | three phase: 600 V or<br>less<br>Power: 280 kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BS-2 | N                |
| SASO 2902:2018 | Control gear,<br>Luminaries              | ENERGY EFFICIENCY,<br>FUNCTIONALITY AND<br>LABELLING<br>REQUIREMENTS FOR<br>LIGHTING PRODUCTS<br>PART 2                                             | Lamps and luminaires<br>with a luminous flux<br>above 60 lumens, and<br>control gears(ballasts)<br>· Incandescent lamps<br>with a luminous flux<br>above 12 000 lumens<br>· Halogen lamps with<br>a luminous flux above<br>12 000 lumens<br>· Compact fluorescent<br>lamps with integrated<br>ballast(CLFi) with a<br>luminous flux above 12<br>000 Lumens<br>· Compact fluorescent<br>lamps without<br>integrated<br>ballast(CFLni)<br>· Fluorescent Lamps(all<br>types)<br>· High Intensity<br>Discharge Lamps, such<br>as: Mercury Vapour<br>Lamps, High/Low<br>Pressure Sodium<br>Lamps, Quartz Metal<br>Halide Lamps, Ceramic<br>Metal Halide Lamps<br>· LED Lamps (including<br>retrofit LED lamps with<br>a luminous flux above<br>12 000 Lumens)) | BS-1 | N                |



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| Test method           | Materials/<br>Products             | Standard<br>designation                                                                                                                                                                                                                        | Test range                                                                               | Site | Field<br>testing |
|-----------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------|------------------|
| SIST EN<br>14825:2022 | Air<br>conditioner                 | Air conditioners, liquid<br>chilling packages and<br>heat pumps, with<br>electrically driven<br>compressors, for space<br>Heating and cooling -<br>Testing and rating at<br>part load conditions and<br>calculation of seasonal<br>performance | (1 160 ~ 87 000) W                                                                       | BS-2 | N                |
| TCVN 7540-<br>1:2013  | Rotating<br>electrical<br>machines | High efficiency three-<br>phase asynchronous<br>squirrel cage electrical<br>motors - Part 1:<br>Minimum energy<br>performance                                                                                                                  | single phase: 400 V or<br>less<br>three phase: 600 V or<br>less<br>Power: 375 kW or less | BS-2 | Y                |
| TCVN 7540-<br>2:2013  | Rotating<br>electrical<br>machines | High efficiency three-<br>phase asynchronous<br>squirrel cage electrical<br>motors - Part 2:<br>Methods for<br>determination of<br>performance                                                                                                 | single phase: 400 V or<br>less<br>three phase: 600 V or<br>less<br>Power: 375 kW or less | BS-2 | Y                |
| TCVN 7627:2007        | Refrigerator                       | Refrigerating Equipment<br>appliances -<br>Characteristics and test<br>methods                                                                                                                                                                 | (0 ~ 600) V<br>(0 ~ 20) A                                                                | BS-1 | N                |
| TCVN 7828:2016        | Refrigerator                       | Refrigerator refrigerator<br>- freezer - Energy<br>Efficiency                                                                                                                                                                                  | (0 ~ 600) V<br>(0 ~ 20) A                                                                | BS-1 | N                |
| TCVN 7828:2016        | Refrigerator                       | Refrigerator,<br>refrigerator-freezer -<br>Energy Efficiency                                                                                                                                                                                   | 1 000 L or less                                                                          | BS-2 | N                |
| TCVN 7829:2016        | Refrigerator                       | Refrigerator refrigerator<br>- freezer - Method for<br>determination of energy<br>Efficiency                                                                                                                                                   | (0 ~ 600) V<br>(0 ~ 20) A                                                                | BS-1 | N                |
| TCVN 7829:2016        | Refrigerator                       | Refrigerator,<br>refrigerator-freezer -<br>Method for<br>determination of energy<br>Efficiency                                                                                                                                                 | 1 000 L or less                                                                          | BS-2 | N                |
| TCVN 7830:2007        | Air<br>conditioner                 | Air - conditioners -<br>Energy efficiency Ratio                                                                                                                                                                                                | (1 160 ~ 14 000) W                                                                       | BS-2 | N                |
| TCVN 7830:2012        | Air<br>conditioner                 | Non-Ducted air<br>conditioner-Energy<br>efficiency                                                                                                                                                                                             | (1 160 ~ 14 000) W                                                                       | BS-2 | N                |
| TCVN 7830:2015        | Air<br>conditioner                 | Non - ducted air<br>conditioners - Energy<br>efficiency                                                                                                                                                                                        | (1 160 ~ 14 000) W                                                                       | BS-2 | N                |

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| Test method           | Materials/<br>Products                   | Standard<br>designation                                                                                                          | Test range                                                                                       | Site | Field<br>testing |
|-----------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|------------------|
| TCVN 7830:2015        | Air<br>conditioner                       | Non-ducted air<br>conditioners - Energy<br>efficiency                                                                            | (500 ~ 20 000) W                                                                                 | SF-4 | N                |
| TCVN 7831:2012        | Air<br>conditioner                       | Non-Ducted air<br>conditioner- Method for<br>determination of energy<br>efficiency                                               | (500 ~ 20 000) W                                                                                 | SF-4 | N                |
| TCVN 7831:2012        | Air<br>conditioner                       | Non-Ducted air<br>conditioner-Method for<br>determination of energy<br>efficiency                                                | (1 160 ~ 87 000) W                                                                               | BS-2 | N                |
| TCVN 8526:2013        | Electric<br>appliances for<br>households | Electric washing<br>machine -Minimum<br>energy performance and<br>method for<br>determination of energy<br>efficiency            | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| TCVN 9508:2012        | Computer<br>monitors                     | Computer monitors.<br>Energy Efficiency Ratio                                                                                    | Input Voltage : 230 V,<br>Input Power : Max. 1<br>000 W,<br>Frequency : 50 Hz                    | BS-1 | N                |
| TCVN 9536:2012        | Television sets                          | Television sets. Energy<br>efficiency                                                                                            | Input Voltage : 230 V,<br>Input Power : Max. 1<br>000 W,<br>Frequency : 50 Hz                    | BS-1 | N                |
| TCVN 9537:2012        | Television sets                          | Television sets. Method<br>for determination of<br>energy efficiency                                                             | Input Voltage : 230 V,<br>Input Power : Max. 1<br>000 W,<br>Frequency : 50 Hz                    | BS-1 | N                |
| UAE.S 5010<br>2:2013  | Electric<br>appliances for<br>households | Labeling- Energy<br>efficiency label for<br>electrical appliances Part<br>2 : Washing machines<br>and dryers                     | Input Power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase Max. 250 V<br>Frequency : 50/60 Hz | BS   | N                |
| UAE.S 5010-<br>1:2016 | Electrical<br>machinery                  | Labeling-Energy<br>efficiency label for<br>electrical appliances Part<br>: 1 : household air<br>conditioners                     | (1 160 ~ 87 000) W                                                                               | BS-2 | N                |
| UAE.S 5010-<br>1:2019 | Air<br>conditioner                       | Labeling - Energy<br>Efficiency Label for<br>Electrical Appliances-<br>Part 1: household air<br>conditioners                     | 500 ~ 200 000) W                                                                                 | SF-4 | N                |
| UAE.S 5010-<br>5:2019 | Air<br>conditioner                       | Labeling - Energy<br>Efficiency Label for<br>Electrical Appliances -<br>Part five: Commercial<br>and Central Air<br>Conditioners | (3 000 ~ 320 000) W                                                                              | SF-4 | N                |

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| Test method                                  | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test range                                                                                                                                                                                                                                                        | Site | Field<br>testing |
|----------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MOTIE Notice<br>No.2017-<br>91(06.27.2017.)  | Home &<br>Office<br>appliances      | e-Standby Program<br>Application Regulation<br>Annex 1-1 Computer<br>Annex 1-2 Monitor<br>Annex 1-3 Printer<br>Annex 1-4 Fax<br>Annex 1-5 Duplicator<br>Annex 1-6 Scanner<br>Annex 1-7 combination<br>color printer, scanner,<br>and fax machine<br>Annex 1-8 Automatic<br>power-saving control<br>system<br>Annex 1-10 Audio<br>Annex 1-11 DVD player<br><br>Annex 1-12 Radio<br>Cassette<br>Annex 1-13 Microwave<br>Annex 1-15 Door Phone<br><br>Annex 1-16 Wired and<br>wireless telephone<br>Annex 1-17 Bidet | 500 W or less<br>153 cm or less<br>3 000 W or less<br>3 000 W or less<br>5 000 W or less<br>1 000 W or less<br>5 000 W or less<br><br>1 000 W or less<br>150 W or less<br>1 000 W or less<br>4 000 W or less<br>100 W or less<br>150 W or less<br>2 000 W or less | BS-1 | N                |
| MOTIE Notice<br>No.2021-166호<br>(2021.10.25) | Energy<br>Efficiency                | Regulation on<br>Promotion and<br>Dissemination of High<br>Energy<br>Efficiency Appliances<br>Annex 1.10 Thermo-<br>hygrostat<br>Annex1.11 Gas Heat<br>Pump                                                                                                                                                                                                                                                                                                                                                       | 6 kW or more ~ 35 kW<br>or less<br>23 kW or more                                                                                                                                                                                                                  | SF-4 | N                |
| MOTIE Notice<br>No.2021-<br>166(10.25.2022.) | Thermo-<br>hygrostat                | Regulation on<br>Promotion and<br>Dissemination of High<br>Energy Efficiency<br>Appliances<br>Annex 1.10. Thermo-<br>hygrostat<br>Annex 1.12. Gas Heat<br>Pump                                                                                                                                                                                                                                                                                                                                                    | 6 kW or more ~ 35 kW<br>or less<br>23 kW or more                                                                                                                                                                                                                  | BS-2 | N                |
| MOTIE Notice<br>No.2021-<br>166(10.25.2022.) | Electric power<br>storage<br>system | Regulation on<br>Promotion and<br>Dissemination of High<br>Energy Efficiency<br>Appliances<br>Annex 1.12 ESS                                                                                                                                                                                                                                                                                                                                                                                                      | The ESS must be<br>capable of<br>continuously supplying<br>loads at rated power<br>(kW) for 2 hours or<br>more                                                                                                                                                    | BS-2 | Y                |
| MOTIE Notice<br>No.2022-<br>166(10.25.2022.) | Inverter                            | Regulation on<br>Promotion and<br>Dissemination of High<br>Energy Efficiency<br>Appliances<br>Annex 1.5. Inverter                                                                                                                                                                                                                                                                                                                                                                                                 | 220 kW or less                                                                                                                                                                                                                                                    | BS-2 | N                |

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| Test method                                 | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Site | Field<br>testing |
|---------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MOTIE Notice<br>No.2021-<br>69(04.20.2021.) | Home<br>appliances     | Operating rules of<br>management efficiency<br>machine materials<br>Annex 1-1 Electric<br>refrigerator<br>Annex 1-3 Electric<br>refrigerating appliance<br>for KIM-CHI<br>Annex 1-4 Electric air<br>conditioner<br>Annex 1-9 Electric hot<br>and cold water<br>dispenser<br>Annex 1-10 Electric rice<br>cooker<br>Annex 1-11 Electric<br>vacuum cleaner<br>Annex 1-12 Electric fan<br>Annex 1-14<br>Incandescent Lamp<br>Annex 1-15 Fluorescent<br>lamp<br>Annex 1-17 Self-<br>ballasted lamp<br>Annex 1-20<br>Adaptorharger<br>Annex 1-21 Electric heat<br>pump<br>Annex 1-22 Commercial<br>electric refrigerator<br>Annex 1-26 Televisions<br>Annex 1-28 Electric<br>stove<br>Annex 1-36 Electric<br>Range<br>Annex 1-37 Set top box<br><br>Annex 1-38 Self-<br>ballasted LED lamps<br>Annex 1-39 Non-<br>ballasted LED lamps | 1 000 L or less<br>1 000 L or less<br><br>7.5 kW or less<br>1 000 W or less<br><br>20 cabins or less<br>800 W or more ~ 2<br>500 W or less<br>20 cm or more ~ 41<br>cm or less<br>25 W or more ~ 150 W<br>or less<br>13 W or more ~ 55 W<br>or less<br>5 W or more ~ 60 W or<br>less<br>150 W or less<br>30 kW or less<br>300 L or more ~ 2 000<br>L or less<br>50 cm or more ~ 180<br>cm or less<br>500 W or more ~ 10<br>kW or less<br>1 kW or more ~ 10 kW<br>or less<br>150 W or less<br>AC 1 000 V or less<br>AC 1 000 V or less | BS-1 | N                |

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| Test method                                  | Materials/<br>Products                    | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Site | Field<br>testing |
|----------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MOTIE Notice<br>No.2022-64<br>(2022.04.27)   | Energy<br>Efficiency<br>Appliances        | Regulation on Energy<br>Efficiency<br>Labeling and Standards<br>Annex1.4 Electric air<br>conditioner<br>Annex 1.9 Electric hot<br>and cold water<br>dispenser<br>Annex 1.12 Electric fan<br>Annex 1.21 Electric heat<br>pump<br>Annex1. 28 Electric<br>stove<br>Annex1.29 Electric<br>multi-split air-<br>conditioning and heat<br>pump system<br>Annex1.30<br>Dehumidifiers                                                                                                       | 7.5 kW or less<br>3 000 W or less<br>(20 ~41) cm<br>30 kW or less<br>(500 ~ 10 000) W<br>1 kW or more ~ 70 kW<br>less<br>1 000 W or less                                                                                                                                                                                                                                                                                                                               | SF-4 | N                |
| MOTIE Notice<br>No.2023-<br>170(08.21.2023.) | Three-phase<br>induction<br>motor         | Regulation on Energy<br>Efficiency Labeling and<br>Standards<br>Annex 1.18 Three-<br>phase induction motor                                                                                                                                                                                                                                                                                                                                                                         | 0.75 kW or more ~<br>375 kW or less                                                                                                                                                                                                                                                                                                                                                                                                                                    | BS-2 | N                |
| MOTIE Notice<br>No.2024-<br>001(01.02.2024.) | Electrical<br>machinery for<br>households | Regulation on Energy<br>Efficiency Labeling and<br>Standards<br>Annex 1.1 Electric<br>refrigerator<br>Annex 1.3 Electric<br>refrigerating appliance<br>for KIM-CHI<br>Annex 1.4 Electric air<br>conditioner<br>Annex 1.21 Electric heat<br>pump<br>Annex 1.27 Electric fan<br>heater<br>Annex 1.28 Electric stove<br><br>Annex 1.29 Electric<br>multi-split air-<br>conditioning and heat<br>pump system<br>Annex 1.30<br>Dehumidifiers<br>Annex 1.46 Portable air<br>conditioners | storage volume: 1 000<br>L or less<br>storage volume: 1 000<br>L or less<br>rated power<br>consumption: 7.5 kW<br>or less<br>rated power<br>consumption: 30 kW<br>or less<br>rated power<br>consumption: 500 W<br>or more ~ 10 kW or<br>less<br>rated power<br>consumption: (500 ~<br>10 000) W<br>cooling and heating<br>capacities: 1 kW or<br>more ~ 70 kW or less<br>rated power<br>consumption: 1 000 W<br>or less<br>rated cooling capacity:<br>(500 ~ 23 000) W | BS-2 | N                |

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| Test method                                  | Materials/<br>Products                   | Standard<br>designation                                                                                                                                                                                                                                  | Test range                                                                                                                                                                                                                                                                                                                                                                                                       | Site | Field<br>testing |
|----------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MOTIE Notice<br>No.2024-<br>001(01.02.2024.) | Electric<br>appliances for<br>households | Operating rules of<br>management efficiency<br>machine materials<br>Annex 1-5 Electric<br>washing machine<br>Annex 1-28 Electric<br>stove<br>Annex 1-36 Electric<br>Range<br>Annex 1-43 Clothes<br>dryer                                                 | 2 kg or more ~ 25 kg<br>or less<br>500 W or more ~ 10<br>kW or less<br>1 kW or more ~ 10 kW<br>or less<br>Input power : Max. 5<br>kW<br>Input Voltage : Single<br>Phase<br>Max. 250 V<br>Frequency : 50/60 Hz                                                                                                                                                                                                    | BS   | N                |
| MOTIE Notice<br>No.2021-<br>68(04.20.2021.)  | Lighting<br>products                     | Regulation on<br>Promotion and<br>Dissemination of High<br>Energy Efficiency<br>Appliances<br>Annex 1-9. LED Guide<br>light<br>Annex 1-15. LED<br>module for channel<br>letter signs<br>Annex 1-20. LED<br>Lighting fixtures<br><br>Annex 1-21. LED lamp | 5 W or less<br>DC 50 V or less<br><br>AC 220 V, 60<br>Hz(Indoor,Outdoor)<br>AC 1 000 V or less, 700<br>W or 1 000 W (PLS<br>Light fixture)<br>AC 220 V, 60 Hz, 150<br>W or less(Ultra<br>Constant Discharge<br>(UCD) Lamp lighting)<br>AC 220 V, 60<br>Hz(Induction<br>fluorescent lamp<br>lighting)<br>22 W or less(Intuitive<br>LED lamp)<br>55 W or<br>less(Fluorescent Lamp<br>Replacement Type LED<br>Lamp) | BS-1 | N                |

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## 03. Electrical Testing

### 03.014 Environmental and Reliability

| Test method           | Materials/<br>Products                                       | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Test range                                                                                                | Site | Field<br>testing |
|-----------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------|------------------|
| ECSS-E-10-03A:2002    | space & military equipment and part, satellite material      | Space Engineering - Testing<br>5.1.15 Thermal vacuum test, equipment qualification<br>5.1.16 Thermal cycling test, equipment qualification<br>5.3.5 Thermal qualification tests<br>6.1.10 Thermal vacuum test<br>6.1.11 Thermal cycling test, equipment acceptance<br>6.3.5 Thermal acceptance tests<br><br>5.1.10 Sinusoidal vibration test, equipment qualification<br>5.1.11 Random vibration test, equipment qualification<br>6.1.7 Random vibration test, equipment acceptance<br><br>5.1.13 Shock test, equipment qualification | ( $1.33 \times 10^{-5} \sim 101325$ ) Pa<br>(-70 ~ 120) °C<br><br>(5 ~ 2 000) Hz<br><br>(100 ~ 10 000) Hz | BS-5 | N                |
| ECSS-E-ST-10-03C:2012 | satellite & military related equipment, parts, and materials | Space Engineering - Testing<br>5.5.4 Thermal tests<br>6.5.4 Thermal tests<br><br>5.5.2.3 Random vibration test<br>5.5.2.5 Sinusoidal vibration test<br>6.5.2.7 Random vibration test<br>6.5.2.8 Sinusoidal vibration test<br><br>5.5.2.6 Shock test<br>6.5.2.9 Shock test                                                                                                                                                                                                                                                             | ( $1.33 \times 10^{-5} \sim 101325$ ) Pa<br>(-70 ~ 120) °C<br>(5 ~ 2 000) Hz<br><br>(100 ~ 10 000) Hz     | BS-5 | N                |

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| Test method             | Materials/<br>Products                                                                     | Standard<br>designation                                                                                                                                             | Test range                                                                                                                                                                                                                                                                                                            | Site | Field<br>testing |
|-------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| GMW14872:2013           | Automobile<br>parts<br>(General<br>Motors<br>products)                                     | Cyclic Corrosion<br>Laboratory Test                                                                                                                                 | Salt solution : 0.9 %<br>NaCl, 0.1 % CaCl <sub>2</sub> ,<br>0.075 % NaHCO <sub>3</sub><br>Conditions : Ambient<br>(25 ± 3) °C, 45 % R.H.<br>Humid (49 ± 2) °C, ~<br>100 % R.H.<br>Dry (60 ± 2) °C, ≤30 %<br>R.H.                                                                                                      | BS-2 | N                |
| IACS UR E10:2018        | electrical,<br>electronic,<br>programmable<br>equipment<br>intended, and<br>other articles | Test specification for<br>type approval<br>1. Visual inspection<br>2. Performance test<br>5. Dry heat<br>6. Damp heat<br>7. Vibration<br>8. Inclination<br>11. Cold | High Temperature : (55<br>~ 70) °C<br>Low Temperature : (-<br>25 ~ 5) °C<br>Temperature range :<br>(55 ~ 90) °C<br>Humidity range : (92 ~<br>98) % R.H.<br>Vibration Waveform :<br>sine<br>Frequency : (2 ~ 100)<br>Hz<br>Amplitude(p-p) : 1.6<br>mm<br>Acceleration : 40 m/s <sup>2</sup><br>Max tilt angle : 22.5 ° | BS-2 | N                |
| IEC 60068-2-<br>11:2021 | Electric and<br>electronic<br>product                                                      | Basic environmental<br>testing procedures Part<br>2 : Tests Test Ka : Salt<br>mist                                                                                  | Salt concentration : (5<br>± 1) %<br>Exposure zone : (35 ±<br>2) °C<br>PH : 6.5 ~ 7.2<br>(1.0 ~ 2.0) ml/h                                                                                                                                                                                                             | BS-2 | N                |
| IEC 60068-2-<br>13:1983 | components,<br>equipment or<br>other articles                                              | Environmental testing -<br>Part 2 : Tests. Test M :<br>Low air pressure                                                                                             | Altitude : 0 km ~ 30.48<br>km                                                                                                                                                                                                                                                                                         | BS-2 | N                |
| IEC 60068-2-<br>13:1983 | Electronic<br>components<br>and electronic<br>devices                                      | Environmental testing -<br>Part 2 : Tests - Test M :<br>Low air pressure                                                                                            | Altitude : (0 ~ 21) km                                                                                                                                                                                                                                                                                                | BS   | N                |
| IEC 60068-2-<br>14:2009 | Electronic<br>components<br>and electronic<br>devices                                      | Environmental testing -<br>Part 2 : Tests - Test N :<br>Change of Temperature<br><Exception><br>7. Test Na<br>9. Test Nc                                            | Temperature range :<br>(-40 ~ 125) °C                                                                                                                                                                                                                                                                                 | BS-8 | N                |
| IEC 60068-2-<br>14:2009 | Electronic<br>components<br>and electronic<br>devices                                      | Environmental testing -<br>Part 2 : Tests - Test N :<br>Change of Temperature                                                                                       | High Temperature : (60<br>~ 180) °C<br>Low Temperature : (-<br>85 ~ 0) °C                                                                                                                                                                                                                                             | BS   | N                |
| IEC 60068-2-<br>14:2009 | components,<br>equipment or<br>other articles                                              | Environmental testing -<br>Part 2-14: Tests - Test N:<br>Change of temperature                                                                                      | High Temperature : (60<br>~ 175) °C<br>Low Temperature : (-<br>65 ~ 0) °C                                                                                                                                                                                                                                             | BS-2 | N                |



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| Test method         | Materials/<br>Products                                | Standard<br>designation                                                                                                                                                                       | Test range                                                                                                                    | Site | Field<br>testing |
|---------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60068-2-18:2017 | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2 : Tests Test R and<br>guidance : Water<br>- Method Ra2 : Drip box<br>- Method Rb1 :<br>Oscillating tube and<br>spray nozzle<br>- Method Rc1 : Water<br>tank | Ra2 : IPX1, IPX2<br>Rb1 : IPX3, IPX4<br>Rc1 : 1 000 mm                                                                        | BS-2 | N                |
| IEC 60068-2-1:2007  | Electronic<br>components<br>and electronic<br>devices | Environmental testing -<br>Part 2 : Tests. Tests A :<br>Cold<br><Exception><br>5.3 Test Ad<br>5.4 Test Ae                                                                                     | Temperature(min) : -40<br>℃                                                                                                   | BS-8 | N                |
| IEC 60068-2-1:2007  | Electronic<br>components<br>and electronic<br>devices | Environmental testing -<br>Part 2 : Tests. Tests A :<br>Cold<br><Exception><br>Testing of heat-<br>dissipating specimens,<br>Ad and Ae                                                        | Temperature : -60 ℃                                                                                                           | BS   | N                |
| IEC 60068-2-1:2007  | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2-1: Tests - Test A:<br>Cold                                                                                                                                  | Low Temperature : (-<br>65 ~ 0) ℃                                                                                             | BS-2 | N                |
| IEC 60068-2-27:2008 | components,<br>equipment or<br>other articles         | Environmental testing.<br>Part 2 : Tests. Test Ea<br>and guidance : Shock                                                                                                                     | Pulse shape : half-<br>sine/trapezoidal pulse<br>Maximum peak<br>acceleration : 1 500 g<br>Minimum pulse<br>duration : 0.5 ms | BS-2 | N                |
| IEC 60068-2-2:2007  | Electronic<br>components<br>and electronic<br>devices | Environmental testing -<br>Part 2 : Tests. Tests B :<br>Dry heat<br><Exception><br>5.3 Test Bd<br>5.4 Test Be                                                                                 | Temperature(max) :<br>125 ℃                                                                                                   | BS-8 | N                |
| IEC 60068-2-2:2007  | Electronic<br>components<br>and electronic<br>devices | Environmental testing -<br>Part 2 : Tests. Tests B :<br>Dry heat<br><Exception><br>Testing of heat-<br>dissipating specimens,<br>Bd and Be                                                    | Temperature : 200 ℃                                                                                                           | BS   | N                |
| IEC 60068-2-2:2007  | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2-2: Tests - Test B:<br>Dry heat                                                                                                                              | High Temperature :<br>300 ℃                                                                                                   | BS-2 | N                |
| IEC 60068-2-30:2005 | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2-30: Tests - Test<br>Db: Damp heat, cyclic<br>(12 h + 12 h cycle)                                                                                            | Temperature range :<br>(10 ~ 90) ℃<br>Humidity range: (20 ~<br>98) % R.H.                                                     | BS-2 | N                |

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| Test method         | Materials/<br>Products                                | Standard<br>designation                                                                                                                                               | Test range                                                                                                                    | Site | Field<br>testing |
|---------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60068-2-31:2008 | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2-31: Tests - Test<br>Ec: Rough handling<br>shocks, primarily for<br>equipment-type<br>specimens                                      | Test surface : steel<br>Fall height : 1.83 m or<br>less                                                                       | BS-2 | N                |
| IEC 60068-2-38:2009 | Electronic<br>components<br>and electronic<br>devices | Environmental testing -<br>Part 2 : Tests - Test Z/AD<br>: Composite<br>Temperature/humidity<br>cyclic test                                                           | Temperature range :<br>(10 ~ 90) °C<br>Humidity range : (20 ~<br>95) % R.H.                                                   | BS   | N                |
| IEC 60068-2-38:2009 | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2 : Tests. Test Z/AD<br>: Composite<br>Temperature/humidity<br>cyclic test                                                            | Temperature range :<br>(10 ~ 90) °C<br>Humidity range: (20 ~<br>98) % R.H.                                                    | BS-2 | N                |
| IEC 60068-2-52:2017 | Electric and<br>electronic<br>product                 | Environmental testing -<br>Part 2-52 : Tests - Test<br>Kb : Salt mist, cyclic<br>(sodium chloride<br>solution)                                                        | Salt concentration : (5<br>± 1) %<br>Exposure zone : (35 ±<br>2) °C<br>PH : 6.5 ~ 7.2<br>(1.0 ~ 2.0) ml/h                     | BS-2 | N                |
| IEC 60068-2-5:2018  | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2-5: Tests - Test S:<br>Simulated solar<br>radiation at ground level<br>and guidance for solar<br>radiation testing and<br>weathering | Temperature range : (-<br>40 ~ 150) °C<br>Humidity range: (10 ~<br>98) % R.H.<br>Irradiance : (0 ~ 1 090)<br>W/m <sup>2</sup> | BS-2 | N                |
| IEC 60068-2-64:2008 | Electronic<br>components<br>and electronic<br>devices | Environmental testing -<br>Part 2 : Test methods -<br>Test Fh : Vibration,<br>broad-band random and<br>guidance                                                       | Frequency : 5 Hz ~ 2.5<br>kHz<br>Maximum Amplitude :<br>100 mm(p-p)<br>Maximum Acceleration<br>: 300 m/s <sup>2</sup>         | BS   | N                |
| IEC 60068-2-64:2008 | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2-64: Tests - Test<br>Fh: Vibration,<br>broadband random and<br>guidance                                                              | Frequency : 5 Hz ~ 3<br>kHz<br>Peak amplitude(P-P) :<br>50.8 mm<br>Peak acceleration : 735<br>m/s <sup>2</sup>                | BS-2 | N                |
| IEC 60068-2-66:1994 | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2 : Test methods -<br>Test Cx : Damp heat,<br>steady state<br>(unsaturated pressurized<br>vapour)                                     | Temperature : (110,<br>120, 130) °C<br>Humidity : 85 % R.H.                                                                   | BS-2 | N                |

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| Test method         | Materials/<br>Products                                | Standard<br>designation                                                                                                                                                          | Test range                                                                                                            | Site | Field<br>testing |
|---------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60068-2-67:1995 | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2 : Tests - Test Cy :<br>Damp heat, steady<br>state, accelerated test<br>primarily intended for<br>components                                    | Temperature : (10 ~<br>90) °C<br>Humidity : (20 ~ 98) %<br>R.H.                                                       | BS-2 | N                |
| IEC 60068-2-6:2007  | Electronic<br>components<br>and electronic<br>devices | Environmental testing -<br>Part 2 : Tests - Test Fc :<br>Vibration (sinusoidal)                                                                                                  | Frequency : 5 Hz ~ 2.5<br>kHz<br>Maximum Amplitude :<br>100 mm(p-p)<br>Maximum Acceleration<br>: 300 m/s <sup>2</sup> | BS   | N                |
| IEC 60068-2-6:2007  | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2-6: Tests - Test Fc:<br>Vibration (sinusoidal)                                                                                                  | Frequency : 2 Hz ~ 3<br>kHz<br>Peak amplitude(P-P) :<br>50.8 mm<br>Peak acceleration : 735<br>m/s <sup>2</sup>        | BS-2 | N                |
| IEC 60068-2-78:2012 | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2-78 : Tests - Test<br>Cab : Damp heat, steady<br>state                                                                                          | Temperature : (10 ~<br>90) °C<br>Humidity : (20 ~ 98) %<br>R.H.                                                       | BS-2 | N                |
| IEC 60068-2-78:2012 | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2-78 : Tests - Test<br>Cab : Damp heat, steady<br>state                                                                                          | Temperature range :<br>(30 ± 2) °C<br>(40 ± 2) °C<br>Humidity range :<br>(85 ± 3) % R.H.                              | BS-8 | N                |
| IEC 60068-2-80:2005 | components,<br>equipment or<br>other articles         | Environmental testing -<br>Part 2-80 : Tests - Test Fi<br>: Vibration - Mixed<br>mode                                                                                            | Frequency : 5 Hz ~ 3<br>kHz<br>Peak amplitude(P-P) :<br>50.8 mm<br>Peak acceleration : 735<br>m/s <sup>2</sup>        | BS-2 | N                |
| IEC 60255-21-1:1988 | relays and<br>protection<br>equipment                 | Electrical relays - Part<br>21: Vibration, shock,<br>bump and seismic tests<br>on measuring relays and<br>protection equipment -<br>Section One: Vibration<br>tests (sinusoidal) | Frequency: (10 ~ 150)<br>Hz<br>Amplitude(z-p): Max<br>0.075 mm<br>Acceleration: Max 19.6<br>m/s <sup>2</sup>          | BS-2 | N                |
| IEC 60255-21-2:1988 | relays and<br>protection<br>equipment                 | Electrical relays - Part<br>21: Vibration, shock,<br>bump and seismic tests<br>on measuring relays and<br>protection equipment -<br>Section Two: Shock and<br>bump tests         | Acceleration : Max 294<br>m/s <sup>2</sup><br>Duration : Max 16 ms                                                    | BS-2 | N                |

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| Test method         | Materials/<br>Products                                | Standard<br>designation                                                                                                                                                                                                                        | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Site | Field<br>testing |
|---------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| IEC 60255-21-3:1993 | relays and protection equipment                       | Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 3: Seismic tests<br>4 Requirements for single axis sine sweep seismic test(method A)                              | Frequency : (1 ~ 35) Hz<br>Acceleration : (0.5 ~ 2.0) gn                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BS-2 | N                |
| IEC 61373:2010      | equipment intended for use on railway vehicles        | Railway applications — Rolling stock equipment — Shock and vibration tests                                                                                                                                                                     | Functional random test<br>Vertical: (0.750 ~ 38.0) m/s <sup>2</sup><br>Transverse: (0.370 ~ 34.0) m/s <sup>2</sup><br>Longitudinal: (0.500 ~ 17.0) m/s <sup>2</sup><br>Simulated long-life test (5-hour test)<br>Vertical: (4.25 ~ 144) m/s <sup>2</sup><br>Transverse: (2.09 ~ 129) m/s <sup>2</sup><br>Longitudinal: (2.83 ~ 64.3) m/s <sup>2</sup><br>Shock test<br>Vertical: (30 ~ 1,000) m/s <sup>2</sup><br>Transverse: (30 ~ 1,000) m/s <sup>2</sup><br>Longitudinal: (50 ~ 1,000) m/s <sup>2</sup> | BS-2 | N                |
| IEC 61850-3: 2013   | utility communication and automation IEDs and systems | Communication networks and systems for power utility automation - Part 3: General requirements<br>6.9.3 Climatic environmental tests<br>6.10.1 Vibration response and endurance(sinusoidal)<br>6.10.2 Shock response, shock withstand and bump | High Temperature : Max 200 °C<br>Low Temperature : Min -65 °C<br>Humidity: Max 97 %<br>Frequency: (10 ~ 150) Hz<br>Amplitude(z-p): Max 0.075 mm<br>Acceleration: Max 19.6 m/s <sup>2</sup><br>Acceleration: Max 294 m/s <sup>2</sup><br>Duration: Max 16 ms                                                                                                                                                                                                                                                | BS-2 | N                |

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| Test method           | Materials/<br>Products                        | Standard<br>designation                                                                       | Test range                                                                                                                                                                                                                                                                                                                                                                  | Site | Field<br>testing |
|-----------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| ISO 4892-2:2013       | components,<br>equipment or<br>other articles | Plastics - Methods of<br>exposure to laboratory<br>light sources - Part 2:<br>Xenon-arc lamps | Irradiation(Artificial<br>weathering)<br>: (300 ~ 400) nm<br>(60 ± 2) W/m <sup>2</sup><br>: 340 nm<br>(0.51 ± 0.02) W/(m <sup>2</sup><br>·nm)<br>Irradiation(Window<br>glass filters)<br>: (300 ~ 400) nm<br>(50 ± 2) W/m <sup>2</sup><br>: 340 nm<br>(1.10 ± 0.02) W/(m <sup>2</sup><br>·nm)<br>BPT : (40 ~ 110) °C<br>BST : (40 ~ 120) °C<br>Humidity : (10 ~ 75) %<br>RH | BS-2 | N                |
| JESD22-<br>A101D:2015 | electronic<br>components                      | Steady State<br>Temperature Humidity<br>Bias Life Test                                        | Temperature : (10 ~<br>90) °C<br>Humidity : (20 ~ 98) %<br>R.H.                                                                                                                                                                                                                                                                                                             | BS-2 | N                |
| JESD22-<br>A102E:2015 | electronic<br>components                      | Accelerated Moisture<br>Resistance-Unbiased<br>Autoclave                                      | Temperature : 121 °C                                                                                                                                                                                                                                                                                                                                                        | BS-2 | N                |
| JESD22-<br>A103E:2015 | electronic<br>components                      | High Temperature<br>Storage Life<br>Condition A<br>Condition B<br>Condition C<br>Condition D  | Temperature : (30 ~<br>200) °C                                                                                                                                                                                                                                                                                                                                              | BS-2 | N                |
| JESD22-<br>A104E:2014 | electronic<br>components                      | Temperature Cycling                                                                           | High Temperature : (60<br>~ 180) °C<br>Low Temperature : (-<br>75 ~ 0) °C                                                                                                                                                                                                                                                                                                   | BS-2 | N                |
| JESD22-<br>A105D:2020 | electronic<br>components                      | Power and Temperature<br>Cycling                                                              | Temperature : (-40 ~<br>125) °C                                                                                                                                                                                                                                                                                                                                             | BS-2 | N                |
| JESD22-<br>A108F:2017 | electronic<br>components                      | Temperature, Bias, and<br>Operating Life                                                      | Temperature : (-40 ~<br>160) °C                                                                                                                                                                                                                                                                                                                                             | BS-2 | N                |
| JESD22-<br>A110E:2015 | electronic<br>components                      | Highly Accelerated<br>Temperature and<br>Humidity Stress Test<br>(HAST)                       | Temperature : (110 ~<br>130) °C<br>Humidity : (85 ~ 100)<br>% R.H.                                                                                                                                                                                                                                                                                                          | BS-2 | N                |
| JESD22-<br>A118B:2015 | electronic<br>components                      | Accelerated Moisture<br>Resistance - Unbiased<br>HAST                                         | Temperature : (110 ~<br>130) °C<br>Humidity : (85 ~ 100)<br>% R.H.                                                                                                                                                                                                                                                                                                          | BS-2 | N                |
| JESD22-<br>A119A:2015 | electronic<br>components                      | Low Temperature<br>Storage Life                                                               | Temperature : (-40 ~ -<br>65) °C                                                                                                                                                                                                                                                                                                                                            | BS-2 | N                |

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| Test method              | Materials/<br>Products                       | Standard<br>designation                                                                                                      | Test range                                                                       | Site | Field<br>testing |
|--------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------|------------------|
| KS C IEC 60068-2-13:1983 | Electronic components and electronic devices | Environmental testing - Part 2-13 : Tests - Test M : Low air pressure                                                        | Altitude : (0 ~ 21) km                                                           | BS   | N                |
| KS C IEC 60068-2-13:1983 | components, equipment or other articles      | Environmental testing - Part 2-13 : Tests - Test M : Low air pressure                                                        | Height : 0 km ~ 30.48 km                                                         | BS-2 | N                |
| KS C IEC 60068-2-14:2009 | Electronic components and electronic devices | Environmental testing - Part 2-14 : Tests - Test N : Change of Temperature                                                   | High Temperature : (60 ~ 180) °C<br>Low Temperature : (-85 ~ 0) °C               | BS   | N                |
| KS C IEC 60068-2-14:2009 | Electronic components and electronic devices | Environmental testing - Part 2-14 : Tests - Test N : Change of Temperature<br><Exception><br>7. Test Na<br>9. Test Nc        | Temperature range: : (-40 ~ 125) °C                                              | BS-8 | N                |
| KS C IEC 60068-2-14:2009 | components, equipment or other articles      | Environmental testing - Part 2-14 : Tests - Test N : Change of Temperature                                                   | High Temperature : (60 ~ 175) °C<br>Low Temperature : (-65 ~ 0) °C               | BS-2 | N                |
| KS C IEC 60068-2-1:2007  | Electronic components and electronic devices | Environmental testing - Part 2-1 : Tests - Tests A : Cold<br><Exception><br>5.3 Test Ad<br>5.4 Test Ae                       | Temperature(min) : -40 °C                                                        | BS-8 | N                |
| KS C IEC 60068-2-1:2007  | Electronic components and electronic devices | Environmental testing - Part 2-1 : Tests - Tests A : Cold<br><Exception><br>Testing of heat-dissipating specimens, Ad and Ae | Temperature : -60 °C                                                             | BS   | N                |
| KS C IEC 60068-2-1:2007  | components, equipment or other articles      | Environmental testing - Part 2-1 : Tests - Test A : Cold                                                                     | Temperature : (-65 ~ 0) °C                                                       | BS-2 | N                |
| KS C IEC 60068-2-27:2008 | components, equipment or other articles      | Basic Environmental testing - Part 2-27 : Tests - Test Ea and guidance : Shock                                               | Pulse shape : half-sine/sine<br>Peak acceleration : 1 500 g<br>Duration : 0.5 ms | BS-2 | N                |
| KS C IEC 60068-2-2:2007  | Electronic components and electronic devices | Environmental testing - Part 2 : Tests. Tests B : Dry heat<br><Exception><br>5.3 Test Bd<br>5.4 Test Be                      | Temperature(max) : 125 °C                                                        | BS-8 | N                |



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| Test method              | Materials/<br>Products                       | Standard<br>designation                                                                                                       | Test range                                                                                                   | Site | Field<br>testing |
|--------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 60068-2-2:2007  | Electronic components and electronic devices | Environmental testing - Part 2 : Tests. Tests B : Dry heat<br><Exception><br>Testing of heat-dissipating specimens, Bd and Be | Temperature : 200 °C                                                                                         | BS   | N                |
| KS C IEC 60068-2-2:2007  | components, equipment or other articles      | Environmental testing - Part 2-2 : Tests - Test B : Dry heat                                                                  | High Temperature : 300 °C                                                                                    | BS-2 | N                |
| KS C IEC 60068-2-30:2005 | components, equipment or other articles      | Environmental testing - Part 2-30: Tests - Test Db : Damp heat, cyclic (12 h+12 h cycle)                                      | Temperature : (10 ~ 55) °C<br>Humidity : (20 ~ 98) % R.H.                                                    | BS-2 | N                |
| KS C IEC 60068-2-30:2005 | Electronic components and electronic devices | Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)                                     | Temperature range:(10 ~ 90) °C<br>Humidity range:(20 ~ 95) % R.H.                                            | BS   | N                |
| KS C IEC 60068-2-31:2008 | components, equipment or other articles      | Environmental testing - Part 2-31 : Tests - Test Ec : Rough handling shocks, primarily for equipment-type specimens           | Floor : Iron plate<br>Height : 1.83 m or less                                                                | BS-2 | N                |
| KS C IEC 60068-2-38:2008 | Electronic components and electronic devices | Environmental testing - Part 2-38 : Tests - Test Z/AD : Composite Temperature/humidity cyclic test                            | Temperature range : (10 ~ 90) °C<br>Humidity range : (20 ~ 95) % R.H.                                        | BS   | N                |
| KS C IEC 60068-2-38:2008 | components, equipment or other articles      | Environmental testing - Part 2-38 : Tests - Test Z/AD : Composite Temperature/humidity cyclic test                            | Temperature : (10 ~ 55) °C<br>Humidity : (20 ~ 98) % R.H.                                                    | BS-2 | N                |
| KS C IEC 60068-2-52:2017 | Electric and electronic product              | Environmental testing - Part 2-52 : Tests - Test Kb : Salt mist, cyclic (sodium chloride solution)                            | Salt concentration : (5 ± 1) %<br>Exposure zone : (35 ± 2) °C<br>PH : 6.5 ~ 7.2                              | BS-2 | N                |
| KS C IEC 60068-2-5:2017  | components, equipment or other articles      | Environmental testing - Part 2-5 : Tests - Test Sa : Simulated solar radiation at ground level                                | Temperature : (-40 ~ 150) °C<br>Solar Radiation : 1 120 W/m <sup>2</sup>                                     | BS-2 | N                |
| KS C IEC 60068-2-64:2008 | Electronic components and electronic devices | Environmental testing - Part 2-64 : Test methods - Test Fh : Vibration, broad-band random and guidance                        | Frequency : 5 Hz ~ 2.5 kHz<br>Maximum Amplitude : 100 mm(p-p)<br>Maximum Acceleration : 300 m/s <sup>2</sup> | BS   | N                |



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| Test method              | Materials/<br>Products                       | Standard<br>designation                                                                                                           | Test range                                                                                                   | Site | Field<br>testing |
|--------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 60068-2-64:2008 | components, equipment or other articles      | Environmental testing - Part 2-64 : Tests - Test Fh: Vibration, broadband random and guidance                                     | Frequency : 5 Hz ~ 3 kHz<br>Amplitude(P-P) : 50.8 mm<br>Acceleration : 735 m/s <sup>2</sup>                  | BS-2 | N                |
| KS C IEC 60068-2-66:1994 | components, equipment or other articles      | Environmental testing - Part 2-66 : Test methods - Test Cx : Damp heat, steady state(unsaturated pressurized vapour)              | Temperature : (110, 120, 130) °C<br>Humidity : 85 % R.H.                                                     | BS-2 | N                |
| KS C IEC 60068-2-67:1995 | components, equipment or other articles      | Environmental testing - Part 2-67 : Tests - Test Cy : Damp heat, steady state, accelerated test primarily intended for components | Temperature : (10 ~ 90) °C<br>Humidity : (20 ~ 98) % R.H.                                                    | BS-2 | N                |
| KS C IEC 60068-2-6:2015  | Electronic components and electronic devices | Environmental testing - Part 2-6 : Tests - Test Fc : Vibration (sinusoidal)                                                       | Frequency : 5 Hz ~ 2.6 kHz<br>Maximum Amplitude : 100 mm(p-p)<br>Maximum Acceleration : 300 m/s <sup>2</sup> | BS   | N                |
| KS C IEC 60068-2-6:2015  | components, equipment or other articles      | Environmental testing - Part 2-6 : Tests - Test Fc : Vibration(sinusoidal)                                                        | Frequency : 2 Hz ~ 3 kHz<br>Amplitude(P-P) : 50.8 mm<br>Acceleration : 735 m/s <sup>2</sup>                  | BS-2 | N                |
| KS C IEC 60068-2-78:2012 | components, equipment or other articles      | Environmental testing - Part 2-78 : Tests - Test Cab : Damp heat, steady state                                                    | Temperature : (10 ~ 90) °C<br>Humidity : (20 ~ 98) % R.H.                                                    | BS-2 | N                |
| KS C IEC 60068-2-78:2012 | Electronic components and electronic devices | Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state                                                      | Temperature range:(10 ~ 90) °C<br>Humidity range:(20 ~ 95) % R.H.                                            | BS   | N                |
| KS C IEC 60068-2-78:2012 | Electronic components and electronic devices | Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state                                                      | Temperature range : (30 ± 2) °C<br>(40 ± 2) °C<br>Humidity range : (85 ± 3) % R.H.                           | BS-8 | N                |
| KS C IEC 60068-2-80:2005 | components, equipment or other articles      | Environmental testing - Part 2-80 : Tests - Test Fi : Vibration - Mixed mode                                                      | Frequency : 5 Hz ~ 3 kHz<br>Amplitude(P-P) : 50.8 mm<br>Acceleration : 735 m/s <sup>2</sup>                  | BS-2 | N                |

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| Test method              | Materials/<br>Products                         | Standard<br>designation                                                                                                                                                                                           | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Site | Field<br>testing |
|--------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 60255-21-1:1988 | relays and protection equipment                | Electrical relays - Part 21 : Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section One: Vibration tests (sinusoidal)                                                   | Frequency : (10 ~ 150) Hz<br>Amplitude(z-p): Max 0.075 mm<br>Acceleration : Max 19.6 m/s <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                      | BS-2 | N                |
| KS C IEC 60255-21-2:1988 | relays and protection equipment                | Electrical relays - Part 21 : Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section Two: Shock and bump tests                                                           | Acceleration : Max 294 m/s <sup>2</sup><br>Duration : Max 16 ms                                                                                                                                                                                                                                                                                                                                                                                                                                            | BS-2 | N                |
| KS C IEC 60255-21-3:1993 | relays and protection equipment                | Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 3: Seismic tests<br>4 Requirements for single axis sine sweep seismic test(method A) | Frequency : (1 ~ 35) Hz<br>Acceleration : (0.5 ~ 2.0) gn                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BS-2 | N                |
| KS C IEC 61373:2010      | equipment intended for use on railway vehicles | Railway applications — Rolling stock equipment — Shock and vibration tests                                                                                                                                        | Functional random test<br>Vertical: (0.750 ~ 38.0) m/s <sup>2</sup><br>Transverse: (0.370 ~ 34.0) m/s <sup>2</sup><br>Longitudinal: (0.500 ~ 17.0) m/s <sup>2</sup><br>Simulated long-life test (5-hour test)<br>Vertical: (4.25 ~ 144) m/s <sup>2</sup><br>Transverse: (2.09 ~ 129) m/s <sup>2</sup><br>Longitudinal: (2.83 ~ 64.3) m/s <sup>2</sup><br>Shock test<br>Vertical: (30 ~ 1,000) m/s <sup>2</sup><br>Transverse: (30 ~ 1,000) m/s <sup>2</sup><br>Longitudinal: (50 ~ 1,000) m/s <sup>2</sup> | BS-2 | N                |

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| Test method           | Materials/<br>Products                                | Standard<br>designation                                                                                                                                                                                                                        | Test range                                                                                                                                                                                                                                                                                                                                                   | Site | Field<br>testing |
|-----------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS C IEC 61850-3:2013 | utility communication and automation IEDs and systems | Communication networks and systems for power utility automation - Part 3: General requirements<br>6.9.3 Climatic environmental tests<br>6.10.1 Vibration response and endurance(sinusoidal)<br>6.10.2 Shock response, shock withstand and bump | High Temperature: Max 200 °C<br>Low Temperature: Min -65 °C<br>Humidity: Max 97 %<br>Frequency: (10 ~ 150) Hz<br>Amplitude(z-p): Max 0.075 mm<br>Acceleration: Max 19.6 m/s <sup>2</sup><br>Acceleration: Max 294 m/s <sup>2</sup><br>Duration: Max 16 ms                                                                                                    | BS-2 | N                |
| KS D 9502:2020        | metallic materials                                    | Neutral, acetic acid and copper- accelerated actic acid salt spray                                                                                                                                                                             | Salt concentration : (5 ± 1) %<br>Exposure zone : (35 ± 2) °C<br>PH : 6.5 ~ 7.2<br>(1.5 ± 0.5) ml/h                                                                                                                                                                                                                                                          | BS-2 | N                |
| KS M ISO 4892-2:2013  | components, equipment or other articles               | Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps                                                                                                                                                           | Irradiation(Artificial weathering)<br>: (300 ~ 400) nm<br>(60 ± 2) W/m <sup>2</sup><br>: 340 nm<br>(0.51 ± 0.02) W/(m <sup>2</sup> ·nm)<br>Irradiation(Window glass filters)<br>: (300 ~ 400) nm<br>(50 ± 2) W/m <sup>2</sup><br>: 340 nm<br>(1.10 ± 0.02) W/(m <sup>2</sup> ·nm)<br>BPT : (40 ~ 110) °C<br>BST : (40 ~ 120) °C<br>Humidity : (10 ~ 75) % RH | BS-2 | N                |
| KS R 9144:2021        | equipment intended for use on railway vehicles        | Test methods for vibration of parts of railway rolling stock                                                                                                                                                                                   | Frequency : 1 Hz ~ 3 kHz<br>Amplitude(P-P) : 50.8 mm<br>Acceleration : 735 m/s <sup>2</sup>                                                                                                                                                                                                                                                                  | BS-2 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method        | Materials/<br>Products                                       | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Test range                                                                                                      | Site | Field<br>testing |
|--------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-1540C:1994 | satellite & military related equipment, parts, and materials | <p>TEST REQUIREMENTS FOR LAUNCH, UPPER-STAGE, AND SPACE VEHICLES</p> <p>6.1.3 Thermal Vacuum and Thermal Cycle Tests</p> <p>6.2.7 Thermal Cycle Test, Vehicle Qualification</p> <p>6.2.9 Thermal Vacuum Test, Vehicle Qualification</p> <p>6.3.4 Thermal Vacuum Test, Subsystem Qualification</p> <p>6.4.2 Thermal Cycle Test, Electrical and Electronic Unit Qualification</p> <p>6.4.3 Thermal Vacuum Test, Unit Qualification</p> <p>7.2.7 Thermal Cycle Test, Vehicle Acceptance</p> <p>7.2.8 Thermal Vacuum Test, Vehicle Acceptance</p> <p>7.4.2 Thermal Cycle Test, Electrical and Electronic Unit Acceptance</p> <p>7.4.3 Thermal Vacuum Test, Unit Acceptance</p> <p>6.2.5 Vibration Test, Vehicle Qualification</p> <p>6.3.2 Vibration Test, Subsystem Qualification</p> <p>6.4.4 Vibration Test, Unit Qualification</p> <p>7.2.5 Vibration Test, Vehicle Acceptance</p> <p>7.4.4 Vibration Test, Unit Acceptance</p> <p>6.2.3 Shock Test, Vehicle Qualification</p> <p>6.4.6 Shock Test, Unit Qualification</p> <p>7.2.3 Shock Test, Vehicle Acceptance</p> <p>7.4.6 Shock Test, Unit Acceptance</p> | <p>(1.33×10<sup>-5</sup> ~ 101 325) Pa</p> <p>(-70 ~ 120) °C</p> <p>(5 ~ 2 000) Hz</p> <p>(100 ~ 10 000) Hz</p> | BS-5 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method         | Materials/<br>Products                                                | Standard<br>designation                                                                                                                                                                                               | Test range                                                                                              | Site | Field<br>testing |
|---------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-167-1A:2005 | Shipboard<br>Equipment                                                | DEPARTMENT OF<br>DEFENSE TEST METHOD<br>STANDARD:<br>MECHANICAL<br>VIBRATIONS OF<br>SHIPBOARD<br>EQUIPMENT (TYPE I-<br>ENVIRONMENTAL AND<br>TYPE II-INTERNALLY<br>EXCITED)<br><br>Type I - environmental<br>vibration | Frequency : (4 ~ 33)<br>Hz<br>Maximum Amplitude :<br>(0.1 ± 0.01) inch                                  | BS   | N                |
| MIL-STD-202H:2015   | Electrical,<br>electronic and<br>electro-<br>mechanical<br>components | 107 Thermal shock<br>Condition A<br>Condition B<br>Condition C<br>Condition F                                                                                                                                         | (-55 ~ 93) °C<br>(-65 ~ 90) °C<br>(-65 ~ 205) °C<br>(-65 ~ 153) °C                                      | BS-5 | N                |
| MIL-STD-750-1A:2019 | Electrical,<br>electronic and<br>electro-<br>mechanical<br>components | 1051 Temperature<br>cycling (air to air)<br>Condition A<br>Condition B<br>Condition C<br>Condition D<br>Condition F<br>Condition G                                                                                    | (-55 ~ 95) °C<br>(-55 ~ 140) °C<br>(-55 ~ 190) °C<br>(-65 ~ 215) °C<br>(-65 ~ 165) °C<br>(-55 ~ 165) °C | BS-5 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Site | Field<br>testing |
|-------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-810D:1983 | materiel               | Environmental test methods and engineering guidelines<br>500.2 Low Pressure (Altitude)<br>Procedure I - Storage<br>Procedure II - Operation<br>501.2 High Temperature<br>502.2 Low Temperature<br>503.2 Temperature<br>Shock<br>505.2 Solar Radiation(Sunshine)<br>507.2 Humidity<br>509.2 Salt Fog<br>512.2 Leakage(Immersion)<br>Procedure I - Basic leakage<br>514.3 Vibration<br>Procedure I - General vibration<br>516.3 Shock<br>Procedure I - Functional Shock<br>Procedure IV - Transit drop | Altitude : 4 572 m (57.2 kPa) or less<br>Maximum Temperature : 71 °C<br>Minimum Temperature : -50 °C<br>Temperature : (-75 ~ 180) °C<br>Maximum Temperature : 49 °C<br>Maximum total solar radiation : 1 120 W/m <sup>2</sup><br>Maximum Temperature : 71 °C<br>Humidity : 98 % R.H.<br>Salt solution concentration : (5 ± 1) %<br>Test chamber temperature in the exposure zone : (35 ± 2) °C<br>Depth of immersion : Up to 1 000 mm<br>Frequency : 5 Hz ~ 3 kHz<br>Maximum amplitude(p-p) : 50.8 mm<br>Maximum acceleration : 200 m/s <sup>2</sup><br>Shock wave : Sawtooth, Trapezoidal<br>Maximum amplitude(p-p) : 50.8 mm<br>Maximum acceleration : 200 m/s <sup>2</sup><br>Maximum duration : 20 ms<br>Fall height : 1.83 m or less | BS-2 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Site | Field<br>testing |
|-------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-810E:1989 | materiel               | Environmental test methods and engineering guidelines<br>500.3 Low Pressure(Altitude)<br>Procedure I - Storage<br>Procedure II - Operation<br>501.3 High Temperature<br>502.3 Low Temperature<br>503.3 Temperature Shock<br>505.3 Solar Radiation(Sunshine)<br>507.3 Humidity<br>509.3 Salt Fog<br>512.3 Leakage(Immersion)<br>Procedure I - Basic leakage<br>514.4 Vibration<br>Procedure I - General vibration<br>516.4 Shock<br>Procedure I - Functional Shock<br>Procedure II - Equipment to be packaged<br>Procedure III - Fragility<br>Procedure IV - Transit drop | Altitude : 4 572 m (57.2 kPa) or less<br>Maximum Temperature : 71 °C<br>Minimum Temperature : -50 °C<br>Temperature : (-75 ~ 180) °C<br>Maximum Temperature : 49 °C<br>Maximum total solar radiation : 1 120 W/m <sup>2</sup><br>Maximum Temperature : 71 °C<br>Humidity : 98 % R.H.<br>Salt solution concentration : (5 ± 1) %<br>Test chamber temperature in the exposure zone : (35 ± 2) °C<br>Depth of immersion : Up to 1 000 mm<br>Frequency : 5 Hz ~ 3 kHz<br>Maximum amplitude(p-p) : 50.8 mm<br>Maximum acceleration : 200 m/s <sup>2</sup><br>Shock wave : Sawtooth, Trapezoidal<br>Maximum amplitude(p-p) : 50.8 mm<br>Maximum acceleration : 200 m/s <sup>2</sup><br>Maximum duration : 20 ms<br>Fall height : 1.83 m or less | BS-2 | N                |



# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Site | Field<br>testing |
|-------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-810F:2000 | Military<br>equipment  | DEPARTMENT DEFENCE<br>TEST METHOD<br>STANDARD FOR<br>ENVIRONMENTAL<br>ENGINEERING<br>CONSIDERATIONS AND<br>LABORATORY TESTS<br>500 Low Pressure<br>(Altitude)<br>Procedure I -<br>Storage/Air transport<br>Procedure II -<br>Operation/Air carriage<br>501 High Temperature<br>502 Low Temperature<br>503 Temperature Shock<br><br>507 Humidity<br><br>514 Vibration<br><Exception><br>Category 4 -<br>Truck/trailer/tracked -<br>restrained cargo<br>Category 5 -<br>Truck/trailer/tracked -<br>loose cargo<br>516 Shock<br>Procedure I - Functional<br>Shock<br>Procedure II - Materiel to<br>be packaged<br>Procedure III - Fragility | Altitude : (0 ~ 21) km<br><br>High possible<br>temperature : 200 °C<br>Low possible<br>temperature : -70 °C<br>High temperature : (60<br>~ 180) °C<br>Low temperature : (-70<br>~ 0) °C<br>Temperature : (10 ~<br>90) °C<br>Humidity : (10 ~ 95) %<br>R.H.<br>Frequency : 5 Hz ~ 2.5<br>kHz<br>Maximum Amplitude :<br>100 mm(p-p)<br>Maximum Acceleration<br>: 300 m/s <sup>2</sup><br><br>Wave form : Sawtooth<br>waveform<br>Maximum Amplitude :<br>116 mm(p-p)<br>Maximum Acceleration<br>: 300 m/s <sup>2</sup><br>Duration : 20 ms | BS   | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products                                       | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                        | Test range                                                       | Site | Field<br>testing |
|-------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------|------------------|
| MIL-STD-810F:2000 | satellite & military related equipment, parts, and materials | DEPARTMENT OF DEFENSE TEST METHOD<br>STANDARD FOR ENVIRONMENTAL<br>ENGINEERING CONSIDERATIONS AND<br>LABORATORY TESTS<br><br>METHOD 500.4 Low Pressure (Altitude)<br><Exception><br>Procedure III, Procedure IV<br><br>METHOD 501.4 High Temperature<br>METHOD 502.4 Low Temperature<br><br>METHOD 514.5 VIBRATION<br><Exception><br>Category 4 - Truck/trailer/tracked - restrained cargo<br>Category 5 - Truck/trailer/tracked - loose cargo | (4 488 ~ 101 325) Pa<br><br>(-70 ~ 120) °C<br><br>(5 ~ 2 000) Hz | BS-5 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Site | Field<br>testing |
|-------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-810F:2000 | materiel               | Environmental engineering considerations and laboratory tests<br>500.4 Low Pressure(Altitude)<br>Procedure I -<br>Storage/Air transport<br>Procedure II -<br>Operation/Air carriage<br>501.4 High Temperature<br>502.4 Low Temperature<br>503.4 Temperature Shock<br>505.4 Solar Radiation(Sunshine)<br>507.4 Humidity<br>509.4 Salt Fog<br>512.4 Immersion<br>Procedure I -<br>Immersion<br>514.5 Vibration<br>Procedure I - General vibration<br>516.5 Shock<br>Procedure I -<br>Functional Shock<br>Procedure IV - Transit drop | Altitude : 4 572 m (57.2 kPa) or less<br>Maximum Temperature : 71 °C<br>Minimum Temperature : -50 °C<br>Temperature : (-75 ~ 180) °C<br>Maximum Temperature : 49 °C<br>Maximum total solar radiation : 1 120 W/m <sup>2</sup><br>Maximum Temperature : 71 °C<br>Humidity : 98 % R.H.<br>Salt solution concentration : (5 ± 1) %<br>Test chamber temperature in the exposure zone : (35 ± 2) °C<br>Depth of immersion : Up to 1 000 mm<br>Frequency : 5 Hz ~ 3 kHz<br>Maximum amplitude(p-p) : 50.8 mm<br>Maximum acceleration : 200 m/s <sup>2</sup><br>Shock wave : Sawtooth, Trapezoidal<br>Maximum amplitude(p-p) : 50.8 mm<br>Maximum acceleration : 200 m/s <sup>2</sup><br>Maximum duration : 20 ms<br>Fall height : 1.83 m or less | BS-2 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method                    | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Site | Field<br>testing |
|--------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-810G:(w/Change 1):2014 | Military equipment     | DEPARTMENT DEFENCE<br>TEST METHOD<br>STANDARD FOR<br>ENVIRONMENTAL<br>ENGINEERING<br>CONSIDERATIONS AND<br>LABORATORY TESTS<br>500 Low Pressure<br>(Altitude)<br>Procedure I -<br>Storage/Air transport<br>Procedure II -<br>Operation/Air carriage<br>501 High Temperature<br>502 Low Temperature<br>503 Temperature Shock<br>507 Humidity<br>514 Vibration<br><Exception><br>Category 4 -<br>Truck/Trailer - Secured<br>Cargo<br>Category 5 -<br>Truck/trailer - loose<br>cargo<br>516 Shock<br>Procedure I -<br>Functional Shock<br>Procedure II -<br>Transportation Shock<br>Procedure III - Fragility<br>Procedure V - Crash<br>hazard | Altitude : (0 ~ 21) km<br>High possible<br>temperature : 200 °C<br>Low possible<br>temperature : -60 °C<br>High temperature : (60<br>~ 180) °C<br>Low temperature : (-75<br>~ 0) °C<br>Temperature : (10 ~<br>90) °C<br>Humidity : (10 ~ 95) %<br>R.H.<br>Frequency : 5 Hz ~ 2.5<br>kHz<br>Maximum Amplitude :<br>100 mm(p-p)<br>Maximum Acceleration<br>: 300 m/s <sup>2</sup><br>Wave form : Sawtooth<br>waveform<br>Maximum Amplitude :<br>116 mm(p-p)<br>Maximum Acceleration<br>: 300 m/s <sup>2</sup><br>Duration : 20 ms | BS   | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method                    | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Site | Field<br>testing |
|--------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-810G:(w/Change 1):2014 | materiel               | Environmental engineering considerations and laboratory tests<br>500.6 Low Pressure(Altitude)<br>Procedure I - Storage/Air transport<br>Procedure II - Operation/Air carriage<br>501.6 High Temperature<br>502.6 Low Temperature<br>503.6 Temperature Shock<br>505.6 Solar Radiation(Sunshine)<br>507.6 Humidity<br>509.6 Salt Fog<br>512.6 Immersion<br>Procedure I - Immersion<br>514.7 Vibration<br>Procedure I - General vibration<br>516.7 Shock<br>Procedure I - Functional Shock<br>Procedure IV - Transit drop<br>528.1 Mechanical Vibrations of Shipboard Materiel<br>5.1 Procedure I (Type I) - Environmental Vibration | Altitude : 4 572 m (57.2 kPa) or less<br>Maximum Temperature : 71 °C<br>Minimum Temperature : -51 °C<br>Temperature : (-75 ~ 180) °C<br>Maximum Temperature : 49 °C<br>Maximum total solar radiation : 1 120 W/m <sup>2</sup><br>Maximum Temperature : 71 °C<br>Humidity : 98 % R.H.<br>Salt solution concentration : (5 ± 1) %<br>Test chamber temperature in the exposure zone : (35 ± 2) °C<br>Depth of immersion : Up to 1 000 mm<br>Frequency : 5 Hz ~ 3 kHz<br>Maximum acceleration : 200 m/s <sup>2</sup><br>Maximum acceleration : 200 m/s <sup>2</sup><br>Maximum duration : 20 ms<br>Fall height : 1.83 m or less<br>(4 ~ 33) Hz | BS-2 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Site | Field<br>testing |
|-------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-810G:2008 | Military<br>equipment  | DEPARTMENT DEFENCE<br>TEST METHOD<br>STANDARD FOR<br>ENVIRONMENTAL<br>ENGINEERING<br>CONSIDERATIONS AND<br>LABORATORY TESTS<br>500 Low Pressure<br>(Altitude)<br>Procedure I -<br>Storage/Air transport<br>Procedure II -<br>Operation/Air carriage<br>501 High Temperature<br>502 Low Temperature<br>503 Temperature Shock<br>507 Humidity<br>514 Vibration<br><Exception><br>Category 4 -<br>Truck/Trailer - Secured<br>Cargo<br>Category 5 -<br>Truck/trailer - loose<br>cargo<br>516 Shock<br>Procedure I -<br>Functional Shock<br>Procedure II -<br>Transportation Shock<br>Procedure III - Fragility<br>Procedure V - Crash<br>hazard | Altitude : (0 ~ 21) km<br>High possible<br>temperature : 200 °C<br>Low possible<br>temperature : -60 °C<br>High temperature : (60<br>~ 180) °C<br>Low temperature : (-75<br>~ 0) °C<br>Temperature : (10 ~<br>90) °C<br>Humidity : (20 ~ 98) %<br>R.H.<br>Frequency : 5 Hz ~ 2.6<br>kHz<br>Maximum Amplitude :<br>100 mm(p-p)<br>Maximum Acceleration<br>: 857 m/s <sup>2</sup><br>Wave form : Sawtooth<br>waveform<br>Maximum Amplitude :<br>116 mm(p-p)<br>Maximum Acceleration<br>: 1 714 m/s <sup>2</sup><br>Duration : 20 ms | BS   | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products                                       | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                     | Test range                                                              | Site | Field<br>testing |
|-------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------|------------------|
| MIL-STD-810G:2008 | satellite & military related equipment, parts, and materials | <p>DEPARTMENT OF DEFENSE TEST METHOD STANDARD FOR ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS</p> <p>METHOD 500.5 Low Pressure (Altitude)<br/>&lt;Exception&gt;<br/>Procedure III, Procedure IV</p> <p>METHOD 501.5 High Temperature<br/>METHOD 502.5 Low Temperature</p> <p>METHOD 514.6 VIBRATION<br/>&lt;Exception&gt;<br/>Category 4 - Truck/Trailer - Secured cargo<br/>Category 5 - Truck/trailer - loose cargo</p> | <p>(4 488 ~ 101 325) Pa</p> <p>(-70 ~ 120) °C</p> <p>(5 ~ 2 000) Hz</p> | BS-5 | N                |



# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Site | Field<br>testing |
|-------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-810G:2008 | Military<br>equipment  | Environmental<br>engineering<br>considerations and<br>laboratory tests<br>500 Low<br>Pressure(Altitude)<br>Procedure I -<br>Storage/Air transport<br>Procedure II -<br>Operation/Air carriage<br>501 High Temperature<br>502 Low Temperature<br>503 Temperature Shock<br>505 Solar<br>Radiation(Sunshine)<br>507 Humidity<br>509 Salt Fog<br>512 Immersion<br>Procedure I -<br>Immersion<br>514 Vibration<br>Procedure I - General<br>vibration<br>516 Shock<br>Procedure I -<br>Functional Shock<br>Procedure II - Materiel<br>to be packaged<br>Procedure III - Fragility<br>Procedure IV - Transit<br>drop<br>Procedure V - Crash<br>hazard<br>Procedure VI - Bench<br>handling<br>528 Mechanical<br>Vibrations of Shipboard<br>Materiel<br>(Type I -<br>Environmental And Type<br>II- Internally Excited) | Altitude : 0 km to 21<br>km<br>-Temperature<br>Maximum possible<br>temperature : 200 °C<br>Minimum possible<br>temperature : -75 °C<br>-Sunlight<br>Temperature : (-40 ~<br>150) °C<br>Maximum total solar<br>radiation : 1 120 W/m <sup>2</sup><br>Temperature &<br>Humidity : (10 ~ 90) °C,<br>(20 ~ 98) % R.H.<br>-Salt water<br>Salt solution<br>concentration : (5 ± 1)<br>%<br>Test chamber<br>temperature in the<br>exposure zone : (35 ±<br>2) °C<br>-Flooding<br>Depth of immersion :<br>Up to 1 000 mm<br>-Vibration<br>Frequency: 5 Hz~3 kHz<br>Maximum<br>amplitude(p-p) : 50.8<br>mm<br>Maximum acceleration<br>: 750 m/s <sup>2</sup><br>-Shock<br>Shock wave :<br>Sawtooth, Trapezoidal<br>Maximum<br>amplitude(p-p) : 50.8<br>mm<br>Maximum acceleration<br>: 750 m/s <sup>2</sup><br>Maximum duration :<br>20 ms<br>-Fall<br>Bottom: Steel plate<br>Fall Height: Up to 1.83<br>m | BS-2 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Site | Field<br>testing |
|-------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-810H:2019 | Military equipment     | DEPARTMENT DEFENCE<br>TEST METHOD<br>STANDARD FOR<br>ENVIRONMENTAL<br>ENGINEERING<br>CONSIDERATIONS AND<br>LABORATORY TESTS<br>500 Low Pressure<br>(Altitude)<br>Procedure I -<br>Storage/Air transport<br>Procedure II -<br>Operation/Air carriage<br>501 High Temperature<br>502 Low Temperature<br>503 Temperature Shock<br><br>507 Humidity<br><br>514 Vibration<br><Exception><br>Category 4 -<br>Truck/Trailer - Secured<br>Cargo<br>Category 5 -<br>Truck/trailer - loose<br>cargo<br>516 Shock<br>Procedure I -<br>Functional Shock<br>Procedure II -<br>Transportation Shock<br>Procedure III - Fragility | Altitude : (0 ~ 21) km<br><br>High possible<br>temperature : 200 °C<br>Low possible<br>temperature : -70 °C<br>High temperature : (60<br>~ 180) °C<br>Low temperature : (-70<br>~ 0) °C<br>Temperature : (10 ~<br>95) °C<br>Humidity : (20 ~ 98) %<br>R.H.<br>Frequency : 5 Hz ~ 2.5<br>kHz<br>Maximum Amplitude :<br>100 mm(p-p)<br>Maximum Acceleration<br>: 300 m/s <sup>2</sup><br><br>Wave form : Sawtooth<br>waveform<br>Maximum Amplitude :<br>116 mm(p-p)<br>Maximum Acceleration<br>: 300 m/s <sup>2</sup><br>Duration : 20 ms | BS   | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method        | Materials/<br>Products                                       | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                | Test range                                                                                             | Site | Field<br>testing |
|--------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------|------------------|
| MIL-STD-810H:2019  | satellite & military related equipment, parts, and materials | DEPARTMENT OF DEFENSE TEST METHOD STANDARD FOR ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS<br><br>METHOD 500.6 Low Pressure (Altitude)<br><Exception><br>Procedure III, Procedure IV<br><br>METHOD 501.7 High Temperature<br>METHOD 502.7 Low Temperature<br><br>METHOD 514.8 VIBRATION<br><br><Exception><br>Category 4 - Truck/Trailer - Secured cargo<br>Category 5 - Truck/trailer - loose cargo | (4 488 ~ 101 325) Pa<br><br>(-70 ~ 120) °C<br><br>(5 ~ 2 000) Hz                                       | BS-5 | N                |
| MIL-STD-883L:2019  | Electrical, electronic and electro-mechanical components     | 1010 Temperature cycling<br>Condition A<br>Condition B<br>Condition C<br>Condition D<br>Condition F                                                                                                                                                                                                                                                                                                                    | (-65 ~ 90) °C<br>(-65 ~ 140) °C<br>(-75 ~ 165) °C<br>(-75 ~ 215) °C<br>(-75 ~ 190) °C                  | BS-5 | N                |
| NTE INEN 1173:2013 | Metal coatings                                               | Metal coatings. Determinations of corrosion resistance. Salt spray testing for neutral                                                                                                                                                                                                                                                                                                                                 | Salt concentration : (50 ± 5) g/L<br>Exposure zone : (35 ± 2) °C<br>pH : 6.5 ~ 7.2<br>(1.5 ± 0.5) ml/h | BS-2 | N                |

# Korea Laboratory Accreditation Scheme

No. KT009

| Test method       | Materials/<br>Products | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Test range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Site | Field<br>testing |
|-------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| RTCA DO-160G:2010 | Airborne<br>Equipment  | Environmental<br>Conditions and Test<br>Procedures for Airborne<br>Equipment<br>Section 4 Temperature<br>and Altitude<br>4.5.1 Ground Survival<br>Low Temperature Test<br>and Short-Time<br>operating Low<br>temperature Test<br>4.5.2 Operating Low<br>Temperature Test<br>4.5.3 Ground Survival<br>High Temperature Test<br>and Short-Time<br>operating High<br>temperature Test<br>4.5.4 Operating High<br>Temperature Test<br>4.5.5 In-Flight Loss of<br>Cooling Test<br>4.6.1 Altitude Test<br>Section 5 Temperature<br>Variation<br>Section 6 Humidity<br>Section 7 Operational<br>shocks and Crash Safety<br>7.2 Operational Shock<br>Section 8 Vibration | Altitude : (0 ~ 21) km<br>High possible<br>temperature : 200 °C<br>Low possible<br>temperature : -60 °C<br>High temperature : (60 ~ 180) °C<br>Low temperature : (-75 ~ 0) °C<br>Temperature : (10 ~ 90) °C<br>Humidity : (10 ~ 95) %<br>R.H.<br>Frequency : 5 Hz ~ 2.5 kHz<br>Maximum Amplitude : 100 mm(p-p)<br>Maximum Acceleration : 300 m/s <sup>2</sup><br>Wave form : Sawtooth waveform<br>Maximum Amplitude : 116 mm(p-p)<br>Maximum Acceleration : 300 m/s <sup>2</sup><br>Duration : 20 ms | BS   | N                |
| RTCA DO-160G:2010 | airborne<br>equipment  | Environmental<br>Conditions and Test<br>Procedures for Airborne<br>Equipment<br>Section 4 Temperature<br>and Altitude<br>4.5.1 Ground Survival<br>Low Temperature Test<br>and Short-Time<br>operating Low<br>Temperature Test<br>4.5.2 Operating Low<br>Temperature Test<br>4.5.3 Ground Survival<br>High Temperature Test<br>and Short-Time<br>operating High<br>Temperature Test<br>4.5.4 Operating High<br>Temperature Test<br>4.5.5 In-Flight Loss of<br>Cooling Test<br>4.6.1 Altitude Test<br>Section 5 Temperature<br>Variation<br>Section 6 Humidity                                                                                                     | Altitude : 0 km ~ 21 km<br>Max Temperature : 200 °C<br>Min Temperature : -60 °C<br>High Temperature : (60 ~ 180) °C<br>Low Temperature : (-75 ~ 0) °C<br>Temperature: (-40 ~ 150) °C<br>Temperature range : (10 ~ 90) °C<br>Humidity range : (20 ~ 98) % R.H.                                                                                                                                                                                                                                        | BS-2 | N                |

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| Test method                                  | Materials/<br>Products                                                      | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test range                                                                                                                                                                                                                                                                                                                                                                                                       | Site | Field<br>testing |
|----------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| SMC-S-016:2008                               | satellite &<br>military<br>related<br>equipment,<br>parts, and<br>materials | TEST REQUIREMENTS<br>FOR LAUNCH,<br>UPPER-STAGE AND<br>SPACE VEHICLES<br>6.3.8 Unit Thermal Cycle<br>Test, Electrical and<br>Electronic<br>6.3.9 Unit Thermal<br>Vacuum Test<br>7.3.7 Subsystem<br>Thermal Vacuum Test<br>8.3.8 Vehicle Thermal<br>Vacuum Test<br><br>6.3.5 Unit Vibration Test<br>7.3.4 Subsystem<br>Vibration Test<br>8.3.6 Vehicle Vibration<br>Test<br><br>6.3.4 Unit Shock Test<br>7.3.6 Subsystem Shock<br>Test<br>8.3.4 Vehicle Shock Test | ( $1.33 \times 10^{-5}$ ~ 101<br>325) Pa<br>(-70 ~ 120) °C<br><br>(5 ~ 2 000) Hz<br><br>(100 ~ 10 000) Hz                                                                                                                                                                                                                                                                                                        | BS-5 | N                |
| MOTIE Notice<br>No.2018-<br>206(11.20.2018.) | electricity<br>metering<br>equipment                                        | Watt-hour meters<br>technical standards<br>5.2.1 Resistance to<br>vibration<br>5.2.2 Impact resistance<br>8.3.2 Heat Resistance<br>8.3.3 Cold resistance<br>8.3.4 Temperature and<br>humidity cycle<br>8.3.5 Solar Radiation                                                                                                                                                                                                                                      | Max Temp : 200 °C<br>Min Temp : -60 °C<br>Temperature : (10 ~<br>55) °C<br>Humidity : (20 ~ 98) %<br>R.H.<br>Temperature : (-45 ~<br>180) °C<br>Maximum solar light :<br>1 120 W/m <sup>2</sup><br>Frequency : (10 ~ 150)<br>Hz<br>Amplitude : 0.075 mm<br>Acceleration: 9.8 m/s <sup>2</sup><br>Waveform : Half sine<br>wave<br>Maximum impact<br>acceleration : 300 m/s <sup>2</sup><br>Pulse duration : 18 ms | BS-2 | N                |

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## 04. Heat and Temperature Measurement

### 04.001 Temperature and Humidity

| Test method    | Materials/<br>Products                                   | Standard<br>designation                                                                                                                                                                                      | Test range                                                       | Site | Field<br>testing |
|----------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------|------------------|
| JTM K 07:2022  | Temperature<br>chambers                                  | Temperature chambers-<br>Test and indication<br>method for<br>performance<br>4.5.2 Temperature<br>fluctuation<br>4.5.4 Temperature<br>variation in space                                                     | Temperature (-70 ~<br>315) °C                                    | BS   | Y                |
| JTM K 09:2023  | Temperature/<br>Humidity<br>chambers                     | Temperature/Humidity<br>chambers - Test and<br>indication method for<br>performance<br>5.5.3<br>Temperature/Humidity<br>fluctuation<br>5.5.4 Humidity<br>fluctuation<br>5.5.6 Humidity variation<br>in space | Humidity : (5 ~ 98) %<br>R.H.<br>Temperature : (-70 ~<br>200) °C | BS   | Y                |
| KS B 4003:1990 | Heating<br>Equipment for<br>metals Heat<br>Treatment Use | Test methods for<br>Effective Working Zone<br>of Heating Equipment<br>for metals Heat<br>Treatment Use                                                                                                       | Max. 1 500 °C                                                    | BS   | Y                |

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## 04. Heat and Temperature Measurement

### 04.002 Fire

| Test method                                 | Materials/<br>Products              | Standard<br>designation                                                                                                                                                                              | Test range                                                                                                                                                                                      | Site | Field<br>testing |
|---------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS F 2271:2021                              | Finish<br>materials of<br>buildings | Testing method for gas<br>toxicity of finish<br>materials of buildings                                                                                                                               | Stop time : (1 ~ 15)<br>min                                                                                                                                                                     | BS-2 | N                |
| KS F ISO<br>1182:2020                       | Finish<br>materials of<br>buildings | Test method of non-<br>combustibility of<br>building products                                                                                                                                        | Temp : (50 ~ 900) °C<br>Mass loss rate : (0 ~<br>100) %                                                                                                                                         | BS-2 | N                |
| KS F ISO 5660-<br>1:2015                    | Finish<br>materials of<br>buildings | Reaction to fire tests -<br>Heat release, smoke<br>production and mass<br>loss rate - Part 1:Heat<br>release rate(cone<br>calorimeter method)and<br>smoke production<br>rate(dynamic<br>measurement) | Heat release (0.1 ~<br>100) MJ/m <sup>2</sup><br>Heat release rate (1~1<br>000) kW/m <sup>2</sup>                                                                                               | BS-2 | N                |
| MOLIT Notice<br>No.2023-<br>24(01.09.2023.) | Finish<br>materials of<br>buildings | Criteria for flame<br>retardant performance<br>and fire spread<br>prevention for finish<br>materials of buildings                                                                                    | Stop time : (1 ~ 15)<br>min<br>Temp : (50 ~ 900) °C<br>Mass loss rate : (0 ~<br>100) %<br>Heat release : (0.1 ~<br>100) MJ/m <sup>2</sup><br>Heat release rate : (1~1<br>000) kW/m <sup>2</sup> | BS-2 | N                |



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## 06. Sound and Vibration Testing

### 06.001 Sound characteristics

| Test method            | Materials/<br>Products                               | Standard<br>designation                                                                                                                                                                                                           | Test range                            | Site | Field<br>testing |
|------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|------------------|
| ASTM E1050-19          | Acoustic<br>absorbing<br>materials                   | Standard Test Method<br>for Impedance and<br>Absorption of Acoustical<br>Materials Using a Tube,<br>Two Microphones and a<br>Digital Frequency<br>Analysis System                                                                 | 63 Hz ~ 6.4 kHz                       | BS   | N                |
| IEC 60704-1:2021       | Household<br>and similar<br>electrical<br>appliances | HOUSEHOLD AND<br>SIMILAR ELECTRICAL<br>APPLIANCES - TEST<br>CODE FOR THE<br>DETERMINATION OF<br>AIRBORNE ACOUSTICAL<br>NOISE -<br><br>Part 1:General<br>requirements<br><Applicable><br>ISO 3744:2010                             | Sound pressure level,<br>below 137 dB | BS   | Y                |
| IEC 60704-2-<br>1:2000 | Vacuum<br>cleaners                                   | HOUSEHOLD AND<br>SIMILAR ELECTRICAL<br>APPLIANCES - TEST<br>CODE FOR THE<br>DETERMINATION OF<br>AIRBORNE ACOUSTICAL<br>NOISE -<br><br>Part 2-1:Particular<br>requirements for<br>vacuum cleaners<br><Applicable><br>ISO 3744:2010 | Sound pressure level,<br>below 137 dB | BS   | Y                |
| ISO 10140-2:2021       | Building<br>elements                                 | Acoustics — Laboratory<br>measurement of sound<br>insulation of building<br>elements —<br>Part 2:<br>Measurement of<br>airborne sound<br>insulation                                                                               | 100 Hz ~ 5 kHz                        | BS   | N                |
| ISO 10534-2:1998       | Acoustic<br>absorbing<br>materials                   | Acoustics —<br>Determination of sound<br>absorption coefficient<br>and impedance in<br>impedance tubes —<br>Part 2 :<br>Transfer-function<br>method                                                                               | 63 Hz ~ 6.4 kHz                       | BS   | N                |

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| Test method     | Materials/<br>Products                 | Standard<br>designation                                                                                                                                                                                                                | Test range                            | Site | Field<br>testing |
|-----------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|------------------|
| ISO 10847:1997  | Outdoor noise<br>barriers              | Acoustics — In-situ<br>determination of<br>insertion loss of outdoor<br>noise barriers of all types                                                                                                                                    | 100 Hz ~ 10 kHz                       | BS   | Y                |
| ISO 11202:2010  | machinery,<br>equipment                | Acoustics — Noise<br>emitted by machinery<br>and equipment —<br>Determination of<br>emission sound pressure<br>levels at a work station<br>and at other specified<br>positions applying<br>approximate<br>environmental<br>corrections | Sound pressure level,<br>below 137 dB | BS   | Y                |
| ISO 11203:1995  | machinery,<br>equipment                | Acoustics — Noise<br>emitted by machinery<br>and equipment —<br>Determination of<br>emission sound pressure<br>levels at a work station<br>and at other specified<br>positions from the<br>sound power level                           | Sound pressure level,<br>below 137 dB | BS   | Y                |
| ISO 1996-1:2016 | Road traffic,<br>Railroad,<br>Aircraft | Acoustics — Description,<br>measurement and<br>assessment of<br>environmental noise —<br>Part 1 :<br>Basic quantities and<br>assessment procedures                                                                                     | Sound pressure level,<br>below 137 dB | BS   | Y                |
| ISO 3382-1:2009 | Room space                             | Acoustics —<br>Measurement of room<br>acoustic parameters —<br>Part 1 :<br>Performance spaces                                                                                                                                          | RT, D50, STI etc                      | BS   | Y                |
| ISO 3382-2:2008 | Room space                             | Acoustics —<br>Measurement of room<br>acoustic parameters —<br>Part 2 :<br>Reverberation time in<br>ordinary rooms                                                                                                                     | RT                                    | BS   | Y                |
| ISO 354:2003    | Acoustic<br>absorbing<br>materials     | Acoustics —<br>Measurement of sound<br>absorption in a<br>reverberation room                                                                                                                                                           | 100 Hz ~ 5 kHz                        | BS   | N                |

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| Test method           | Materials/<br>Products             | Standard<br>designation                                                                                                                                                                                           | Test range                            | Site | Field<br>testing |
|-----------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|------------------|
| ISO 3741:2010         | machinery,<br>equipment            | Acoustics —<br>Determination of sound<br>power levels and sound<br>energy levels of noise<br>sources using sound<br>pressure — Precision<br>methods for<br>reverberation test rooms                               | Sound pressure level,<br>below 137 dB | BS   | N                |
| ISO 3744:2010         | machinery,<br>equipment            | Acoustics —<br>Determination of sound<br>power levels and sound<br>energy levels of noise<br>sources using sound<br>pressure — Engineering<br>methods for an<br>essentially free field over<br>a reflecting plane | Sound pressure level,<br>below 137 dB | BS   | Y                |
| ISO 3745:2012         | machinery,<br>equipment            | Acoustics —<br>Determination of sound<br>power levels and sound<br>energy levels of noise<br>sources using sound<br>pressure — Precision<br>methods for anechoic<br>rooms and hemi-<br>anechoic rooms             | Sound pressure level,<br>below 137 dB | BS   | N                |
| KS F 10140-<br>2:2010 | Building<br>elements               | Acoustics — Laboratory<br>measurement of sound<br>insulation of building<br>elements — Part 2:<br>Measurement of<br>airborne sound<br>insulation                                                                  | 100 Hz ~ 5 kHz                        | BS   | N                |
| KS F 2805:2014        | Acoustic<br>absorbing<br>materials | Measurement of sound<br>absorption in a<br>reverberation room                                                                                                                                                     | 100 Hz ~ 5 kHz                        | BS   | N                |
| KS F 2809:2011        | Building<br>elements               | Field measurements of<br>airborne sound<br>insulation of buildings                                                                                                                                                | 100 Hz ~ 3 150 Hz                     | BS   | Y                |
| KS F 2810-1:2015      | Building<br>elements               | Field measurements of<br>impact sound insulation<br>of floors — Part 1:<br>Method using standard<br>light impact source                                                                                           | 100 Hz ~ 3 150 Hz                     | BS   | Y                |
| KS F 2810-2:2012      | Building<br>elements               | Field measurements of<br>floor impact sound<br>insulation of buildings —<br>Part 2 : Method using<br>standard heavy impact<br>sources                                                                             | 50 Hz ~ 630 Hz                        | BS   | Y                |

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| Test method               | Materials/<br>Products             | Standard<br>designation                                                                                                                                                                              | Test range        | Site | Field<br>testing |
|---------------------------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------|------------------|
| KS F 2814-2:2002          | Acoustic<br>absorbing<br>materials | Acoustics—determinatio<br>n of sound absorption<br>coefficient and<br>impedance in<br>impedance tubes — Part<br>2 : Transfer-function<br>method                                                      | 63 Hz ~ 6.4 kHz   | BS   | N                |
| KS F 2862:2017            | Building<br>elements               | Rating of airborne<br>sound insulation in<br>buildings and of<br>building elements                                                                                                                   | 100 Hz ~ 3 150 Hz | BS   | Y                |
| KS F 2863-1:2017          | Building<br>elements               | Rating of floor impact<br>sound insulation for<br>impact source in<br>buildings and of<br>building elements —<br>Part 1: Floor impact<br>sound insulation against<br>standard light impact<br>source | 100 Hz ~ 3 150 Hz | BS   | Y                |
| KS F 2863-2:2017          | Building<br>elements               | Rating of floor impact<br>sound insulation for<br>impact source in<br>buildings and of<br>building elements —<br>Part 2: Floor impact<br>sound insulation against<br>standard heavy impact<br>source | 63 Hz ~ 2 000 Hz  | BS   | Y                |
| KS F 2864:2012            | Room space                         | Measurement of the<br>reverberation time of<br>rooms with reference to<br>the other acoustical<br>parameters                                                                                         | RT, D50, STI etc  | BS   | Y                |
| KS F ISO 16283-<br>1:2014 | Building<br>elements               | Acoustics — Field<br>measurement of sound<br>insulation in buildings<br>and of building<br>elements — Part 1:<br>Airborne sound<br>insulation                                                        | 100 Hz ~ 3 150 Hz | BS   | Y                |
| KS F ISO 16283-<br>2:2015 | Building<br>elements               | Acoustics — Field<br>measurement of sound<br>insulation in buildings<br>and of building<br>elements — Part 2:<br>Impact sound insulation                                                             | 100 Hz ~ 3 150 Hz | BS   | Y                |

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| Test method          | Materials/<br>Products           | Standard<br>designation                                                                                                                                                                                | Test range                                                                                                                                      | Site | Field<br>testing |
|----------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|
| KS F ISO 717-2:2020  | Building elements                | Acoustics - Rating of sound insulation in buildings and of building elements - Part 2: Impact sound insulation                                                                                         | The tapping machine impact sound: One-third octave bands (100 ~ 3 150) Hz<br>The rubber ball impact sound: One-third octave bands (50 ~ 630) Hz | BS   | Y                |
| KS I ISO 10847:1997  | Outdoor noise barriers           | Acoustics — In-situ determination of insertion loss of outdoor noise barriers of all types                                                                                                             | 100 Hz ~ 10 kHz                                                                                                                                 | BS   | Y                |
| KS I ISO 11202:2010  | machinery, equipment             | Acoustics — Noise emitted by machinery and equipment — Measurement of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections | Sound pressure level, below 137 dB                                                                                                              | BS   | Y                |
| KS I ISO 1996-1:2016 | Road traffic, Railroad, Aircraft | Acoustics — Description, measurement and assessment of environment noise — Part 1: Basic quantities and assessment procedures                                                                          | Sound pressure level, below 137 dB                                                                                                              | BS   | Y                |
| KS I ISO 3741:2010   | machinery, equipment             | Acoustics — Determination of sound power levels of noise sources using sound pressure — Precision methods for reverberation rooms                                                                      | Sound pressure level, below 137 dB                                                                                                              | BS   | N                |
| KS I ISO 3744:2010   | machinery, equipment             | Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering methods for an essentially free field over a reflecting plane              | Sound pressure level, below 137 dB                                                                                                              | BS   | Y                |

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| Test method                | Materials/<br>Products  | Standard<br>designation                                                                                                                                                                               | Test range                            | Site | Field<br>testing |
|----------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|------------------|
| KS I ISO<br>3745:2012      | machinery,<br>equipment | Acoustics —<br>Determination of sound<br>power levels and sound<br>energy levels of noise<br>sources using sound<br>pressure — Precision<br>methods for anechoic<br>rooms and hemi-<br>anechoic rooms | Sound pressure level,<br>below 137 dB | BS   | N                |
| KS I ISO<br>7779:2010      | machinery,<br>equipment | Acoustics —<br>Measurement of<br>airborne noise emitted<br>by information<br>technology and<br>telecommunications<br>equipment                                                                        | Sound pressure level,<br>below 137 dB | BS   | N                |
| KS I ISO 9614-<br>2:1996   | machinery,<br>equipment | Acoustics —<br>Determination of sound<br>power levels of noise<br>sources using sound<br>intensity — Part 2:<br>Measurement by<br>scanning                                                            | Sound pressure level,<br>below 162 dB | BS   | Y                |
| MIL-STD-740-<br>1(SH):1986 | Shipboard<br>equipment  | AIRBORNE SOUND<br>MEASUREMENTS AND<br>ACCEPTANCE CRITERIA<br>OF SHIPBOARD<br>EQUIPMENT                                                                                                                | Sound pressure level,<br>below 137 dB | BS   | Y                |

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## 06. Sound and Vibration Testing

### 06.002 Vibration characteristics

| Test method             | Materials/<br>Products       | Standard<br>designation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Test range                                                                    | Site | Field<br>testing |
|-------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------|------------------|
| ICC-ES<br>AC156:2010    | Vibration<br>characteristics | Acceptance Criteria for<br>Seismic Certification by<br>Shake-table Testing of<br>Nonstructural<br>Components                                                                                                                                                                                                                                                                                                                                                                                                    | Frequency Range : (1 ~<br>50) Hz                                              | BS-2 | N                |
| IEC 60255-21-<br>3:1993 | Relays                       | Electrical relays - Part 21<br>: Vibration, shock, bump<br>and seismic tests on<br>measuring relays and<br>protection equipment -<br>Section 3 : Seismic tests.                                                                                                                                                                                                                                                                                                                                                 | Frequency : (1 ~ 35) Hz<br>Sweep Rate : 1<br>octave/min                       | BS-2 | N                |
| IEC 61587-2:2011        | Cabinets and<br>racks        | Mechanical structures<br>for electronic equipment<br>- Tests for IEC 60917<br>and IEC 60297 - Part 2 :<br>Seismic tests for<br>cabinets and racks                                                                                                                                                                                                                                                                                                                                                               | Frequency : (1 ~ 50) Hz<br>Max. Deflection : ≥ 40<br>mm<br>Damping : 2 %      | BS-2 | N                |
| IEEE C37.98:2013        | Relays                       | IEEE Standard for<br>Seismic Qualification<br>Testing of Protective<br>Relays and Auxiliaries for<br>Facilities                                                                                                                                                                                                                                                                                                                                                                                                 | Frequency : (1 ~ 100)<br>Hz                                                   | BS-2 | N                |
| IEEE Std 344:2013       | Class 1E<br>Equipment        | IEEE Standard for<br>Seismic Qualification of<br>Equipment for Nuclear<br>Power Generating<br>Stations<br>- 8. Testing<br>- 8.1 Introduction<br>- 8.2 Proof and generic<br>testing<br>- 8.4 Device testing<br>- 8.5 Assembly testing<br>- 8.6 Test methods<br>- 8.6.1 Introduction<br>- 8.6.2 Single-frequency<br>test<br>- 8.6.3 Multiple-<br>frequency tests<br>- 8.6.3.1 Derivation of<br>test input motion<br>- 8.6.3.2 Time history<br>test<br>- 8.6.3.3 Random-<br>motion test<br>- 8.6.6 Multiaxis tests | Frequency : (1 ~ 50) Hz<br>TRS analysis : 1/6<br>octave Bandwidth<br>Analysis | BS-2 | N                |



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| Test method                              | Materials/<br>Products          | Standard<br>designation                                                                                                                                                                                                                                                         | Test range                                                                       | Site | Field<br>testing |
|------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------|------------------|
| IEEE Std 382:2006                        | Actuator                        | IEEE Standard for Qualification of Safety-Related Actuators for Nuclear Power Generating Stations and Other Nuclear Facilities<br>- 5. Identification of the generic actuator group<br>- 6. Qualification testing of selected actuators in generic actuator group               | Frequency : (1 ~ 50) Hz<br>Sine Beat : (12 ~ 15) oscillations per beat           | BS-2 | N                |
| IEEE Std 693:2018                        | Electrical Substation Equipment | IEEE Recommended Practice for Seismic Design of Substations<br>- 5. Seismic criteria for qualification of electrical substation equipment                                                                                                                                       | Frequency : (1 ~ 50) Hz                                                          | BS-2 | N                |
| KS C IEC 60068-3-3:2020                  | Relays                          | Environmental Testing Part 3-3 : Supporting documentation and guidance - Seismic test methods for equipment<br>- 13.2 Multi frequency wave testing<br>- 13.3 Single frequency testing                                                                                           | Frequency : (1 ~ 50) Hz                                                          | BS-2 | N                |
| KS C IEC 60255-21-3:2012                 | Relays                          | Electrical relays - Part 21 : Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 3 : Seismic tests.                                                                                                                                | Frequency : (1 ~ 35) Hz<br>Sweep Rate : 1 octave/min                             | BS-2 | N                |
| Telcordia GR-63-CORE Issue5:2017         | Vibration characteristics       | NEBS Requirements: Physical Protection<br>4.4.1 Earthquake Environment and Criteria<br>5.4.1 Earthquake Test Methods<br><Exception><br>5.4.1.4 Static Test Procedure)                                                                                                           | Earthquake Level : Zone 4, Zone 3, Zone 1 and 2<br>Frequency Range : (1 ~ 50) Hz | BS-2 | N                |
| RRA Notification No.2020-92(11.17.2020.) | Telecommunication Equipment     | Conformity Assessment Procedure for Seismic of Telecommunication Equipment<br><Exception><br>Article 14 Analysis application conditions<br>Article 16 Analysis result report<br>Article 18 Analysis result judgment condition<br>Appendix 2 Summary of seismic analysis results | Frequency : (1 ~ 50) Hz<br>TRS analysis : 1/6 octave Bandwidth Analysis          | BS-2 | N                |

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| Test method                                   | Materials/<br>Products             | Standard<br>designation                                                                                                                                                                                                                                                                                      | Test range                                                                     | Site | Field<br>testing |
|-----------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------|------------------|
| RRA Notification<br>No.2022-<br>7(2.15.2022.) | Vibration<br>characteristics       | Conformity Assessment<br>Procedure for Seismic<br>test of<br>Telecommunication<br>Equipment<br><Exception><br>Article 14 Analysis<br>application conditions<br>Article 16 Analysis result<br>report<br>Article 18 Analysis result<br>judgment condition<br>Appendix 2 Summary of<br>seismic analysis results | Frequency : (0.5 ~ 50)<br>Hz<br>TRS analysis : 1/6<br>octave interval Analysis | BS-2 | N                |
| KEPCO DS-<br>0050(2021.04.14.<br>)            | Substation<br>equipment,<br>Relays | Earthquake Resistant<br>Design Standard<br>of Transmission,<br>Substation and<br>Distribution Facilities<br>- Earthquake Resistant<br>Design Guideline<br>of Transmission,<br>Substation and<br>Distribution Facilities<br>(2021.05) (2.7 Seismic<br>Qualification Test)                                     | Frequency Range : (1 ~<br>50) Hz                                               | BS-2 | N                |

End.