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01. Mechanical Testing

01.001 Metals and Related Products

Test method	Standard designation	Test range	Site	Field testing
ASTM A370-19e1	Standard Test Methods and Definitions for Mechanical Testing of Steel Products	Max. 100 kN	BS	N
ASTM E10-18	Standard Test Method for Brinell Hardness of Metallic Materials	(100 ~ 300) HBW	BS	N
ASTM E1049-85	Standard Practices for Cycle Counting in Fatigue Analysis	Max. 100 kN	BS	N
ASTM E18-19	Standard Test Methods for Rockwell Hardness of Metallic Materials	HRA : 24 ~ 86 HRB : 26 ~ 95 HRC : 20 ~ 60	BS	N
ASTM E190-14	Standard Test Method for Guided Bend Test for Ductility of Welds	Test load : Max.300 kN Bending angle : 180 °	BS	N
ASTM E23-18	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials	Max. 490 J	BS	N
ASTM E290-14	Standard Test Methods for Bend Testing of Material for Ductility	Test load : Max.300 kN Bending angle : 180 °	BS	N
ASTM E466-15	Standard Practice for Conducting Force Controlled Constant Amplitude Axial Fatigue Tests of Metallic Materials	Max. 1.0 MN	BS	N
ASTM E466-15	Standard practice for conducting force controlled constant amplitude axial fatigue tests of metallic materials	(0 ~ 200) kN	BS-2	N
ASTM E606/E606M-19e1	Standard Test Method for Strain-Controlled Fatigue Testing	Max. 1.0 MN	BS	N
ASTM E606/E606M-19e1	Standard practice for strain-controlled fatigue testing	(0 ~ 250) kN	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
ASTM E739-10	Standard Practice for Statistical Analysis of Linear or Linearized Stress-Life (S-N)and Strain-Life (ε-N) Fatigue Data	Max. 100 kN	BS	N
ASTM E8/E8M-16a	Standard Test Methods for Tension Testing of Metallic Materials	Max. 1.0 MN	BS	N
ASTM E8/E8M-16ae1	Standard test methods for tension testing of metallic materials	(0 ~ 200) kN	BS-2	N
ASTM E92-17	Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials	HV : 264 ~ 898 HK : 500 ~ 800	BS	N
ISO 148-1:2016	Metallic materials - Charpy pendulum impact test - Part 1 : Test method	Max. 400 J	BS	N
ISO 16573:2015	Steel-Measurement method for the evaluation of hydrogen embrittlement resistance of high strength steels	Thermal Desorption Temperature : (400 ~ 800) ℃ Force : 250 kN or less	BS	N
ISO 6506-1:2014	Metallic materials - Brinell hardness test - Part 1 : Test method	(100 ~ 300) HBW	BS	N
ISO 6507-1:2018	Metallic materials - Vickers hardness test - Part 1 : Test method	(220 ~ 800) HV	BS	N
ISO 6508-1:2016	Metallic materials - Rockwell hardness test - Part 1 : Test method	(60 ~ 100) HRB (25 ~ 60) HRC	BS	N
ISO 6892-1:2016	Metallic material - Tensile testing - Part 1 : Method of test at room Temperature	Max. 100 kN	BS	N
ISO 7438:2016	Metallic materials - Bend test	Max.100 kN Bending angle : 180 °	BS	N
KS B 0802:2003	Method of tensile test for metallic materials	(0 ~ 1 000) kN	BS-2	N
KS B 0802:2003	Methods of tensile test for metallic materials	Max. 1.0 MN	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KS B 0804:2001	Metallic materials-Bend test	Max. 100 kN Bending angle : 180 °	BS	N
KS B 0805:2000	Metallic materials - Test method of brinell hardness	(100 ~ 300) HBW	BS	N
KS B 0806:2000	Metallic materials - Test method of rockwell hardness	HRA : 24 ~ 86 HRB : 26 ~ 95 HRC : 20 ~ 60	BS	N
KS B 0810:2003	Method of impact test for metallic materials	Max. 400 J	BS	N
KS B 0811:2003	Metallic materials - Vickers hardness test - Part 1 : Test method	(220 ~ 800) HV	BS	N

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01. Mechanical Testing

01.010 Plastics and Related Products

Test method	Standard designation	Test range	Site	Field testing
ASTM D1002-10	Standard Test Method for Apparent Shear Strength of Single-Lap-Joint Adhesively Bonded Metal Specimens by Tension Loading (Metal-to-Metal)	(0 ~ 200) kN	BS-2	N
ASTM D2344/D2344M-16	Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates	(0 ~ 300) kN	BS	N
ASTM D2344/D2344M-16	Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates	(0 ~ 200) kN	BS-2	N
ASTM D3039/D3039M-17	Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials	(0 ~ 200) kN	BS-2	N
ASTM D3039/D3039M-17	Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials	(0 ~ 300) kN	BS	N
ASTM D3165-07-2014	Standard Test Method for Strength Properties of Adhesives in Shear by Tension Loading of Single-Lap-Joint Laminated Assemblies	(0 ~ 200) kN	BS-2	N
ASTM D3165-14	Standard Test Method for Strength Properties of Adhesives in Shear by Tension Loading of Single-Lap-Joint Laminated Assemblies	(0 ~ 300) kN	BS	N
ASTM D3479/D3479M-19	Standard Test Method for Tension-Tension Fatigue of Polymer Matrix Composite Materials	(0 ~ 200) kN	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
ASTM D3479/D3479M-19	Standard Test Method for Tension-Tension Fatigue of Polymer Matrix Composite Materials	(0 ~ 300) kN	BS	N
ASTM D3518/D3518M-18	Standard Test Method for In-Plane Shear Response of Polymer Matrix Composite Materials by Tensile Test of a ±45 ° Laminate	(0 ~ 300) kN	BS	N
ASTM D3518/D3518M-18	Standard Test Method for In-Plane Shear Response of Polymer Matrix Composite Materials by Tensile Test of a ±45 ° Laminate	(0 ~ 200) kN	BS-2	N
ASTM D5379/D5379M-19	Standard Test Method for Shear Properties of Composite Materials by the V-Notched Beam Method	(0 ~ 200) kN	BS-2	N
ASTM D5379/D5379M-19	Standard Test Method for Shear Properties of Composite Materials by the V-Notched Beam Method	(0 ~ 300) kN	BS	N
ASTM D5766/D5766M-11	Standard Test Method for Open-Hole Tensile Strength of Polymer Matrix Composite Laminates	(0 ~ 200) kN	BS-2	N
ASTM D5766/D5766M-11	Standard Test Method for Open-Hole Tensile Strength of Polymer Matrix Composite Laminates	(0 ~ 300) kN	BS	N
ASTM D5961/D5961M-17	Standard Test Method for Bearing Response of Polymer Matrix Composite Laminates	(0 ~ 200) kN	BS-2	N
ASTM D5961/D5961M-17	Standard Test Method for Bearing Response of Polymer Matrix Composite Laminates	(0 ~ 300) kN	BS	N
ASTM D638-14	Standard Test Method for Tensile Properties of Plastics	(0 ~ 300) kN	BS	N

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Test method	Standard designation	Test range	Site	Field testing
ASTM D6484/D6484M-14	Standard Test Method for Open-Hole Compressive Strength of Polymer Matrix Composite Laminates	(0 ~ 300) kN	BS	N
ASTM D6484/D6484M-14	Standard Test Method for Open-Hole Compressive Strength of Polymer Matrix Composite Laminates	(0 ~ 200) kN	BS-2	N
ASTM D6641/D6641M-16	Standard Test Method for Compressive Properties of Polymer Matrix Composite Materials Using a Combined Loading Compression(CLC) Test Fixture	(0 ~ 300) kN	BS	N
ASTM D6641/D6641M-16e1	Standard Test Method for Compressive Properties of Polymer Matrix Composite Materials Using a Combined Loading Compression (CLC) Test Fixture	(0 ~ 200) kN	BS-2	N
ASTM D6742/D6742M-17	Standard Practice for Filled-Hole Tension and Compression Testing of Polymer Matrix Composite Laminates	(0 ~ 300) kN	BS	N
ASTM D6742/D6742M-17	Standard Practice for Filled-Hole Tension and Compression Testing of Polymer Matrix Composite Laminates	(0 ~ 200) kN	BS-2	N
ASTM D695-15	Standard Test Method for Compressive Properties of Rigid Plastics	(0 ~ 300) kN	BS	N
ASTM D695-15	Standard Test Method for Compressive Properties of Rigid Plastics	(0 ~ 200) kN	BS-2	N
ASTM D7136/D7136M-15	Standard Test Method for Measuring the Damage Resistance of a Fiber-Reinforced Polymer Matrix Composite to a Drop-Weight Impact Event	(1 ~ 1 800) J	BS	N

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Test method	Standard designation	Test range	Site	Field testing
ASTM D7136/D7136M-15	Standard Test Method for Measuring the Damage Resistance of a Fiber-Reinforced Polymer Matrix Composite to a Drop-Weight Impact Event	(0 ~ 200) kN, (3 ~ 300) J	BS-2	N
ASTM D7137/D7137M-17	Standard Test Method for Compressive Residual Strength Properties of Damaged Polymer Matrix Composite Plates	(0 ~ 200) kN, (3 ~ 300) J	BS-2	N
ASTM D7137/D7137M-17	Standard Test Method for Compressive Residual Strength Properties of Damaged Polymer Matrix Composite Plates	(0 ~ 1 000) kN (1 ~ 1 800) J	BS	N
ASTM D7264-15	Standard Test Method for Flexural Properties of Polymer Matrix Composite Materials	(0 ~ 300) kN	BS	N
ASTM D790-17	Standard Test Methods for Flexural Properties of Un-reinforced and Reinforced Plastics and Electrical Insulating Materials	(0 ~ 300) kN	BS	N
SACMA SRM 1R-94	Recommended Test Method for Compressive Properties of Oriented Fiber-Resin Composites	(0 ~ 300) kN	BS	N

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01. Mechanical Testing

01.014 Measurement Machinery

Test method	Standard designation	Test range	Site	Field testing
KS I 8001:2009	General rules for measuring conductivity Subclause 8.1	(0.05 ~ 10 000) μS/cm (25 ℃)	BS-2	N
KS I 8001:2009	General rules for electrical conductivity measuring method	(0 ~ 10 000) mS/m, 0.01 mS/m	BS-1	N
KS M 0011:2013	Methods for determination of pH of aqueous solutions Subclause 7.1, Clause 8	(4 ~ 10) pH (25 ℃)	BS-2	N
KS M 0011:2013	Methods for determination pH of aqueous solutions	(0 ~ 14) pH, 0.01 pH	BS-1	N
NIER Notice No.2018-68(28.12.2018.)	QM 0301.1 Dissoloved Oxygen Meter QM 0302.1 Continuous Chemical Oxygen Demand Analyzer QM 0304.1 Continuous Total Nitrogen Analyzer(including ammonia, nitrate and nitrite nitrogen) QM 0305.1 Continuous Total Phosphorus Analyzer QM 0306.1 Continuous Total Organic Catbon Analyzer QM 0307.1 Continuous pH Meter QM 0308.1 Continuous Suspended Solid Meter QM 0601.1 Continuous Tubidity Meter QM 0602.1 Continuous Residual Chlorine Meter	(0 ~ 20) mg/L, 0.01 mg/L (0 ~ 250) mg/L, 0.01 mg/L (0 ~ 100) mg/L, 0.01 mg/L (0 ~ 20) mg/L, 0.01 mg/L (0 ~ 100) mg/L, 0.01 mg/L (0 ~ 14) pH, 0.01 pH (0 ~ 1 000) mg/L, 0.01 mg/L (0 ~ 10) NTU, 0.01 NTU (0 ~ 10) mg/L, 0.01 mg/L	BS-1	N

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01. Mechanical Testing

01.015 Industrial Machinery

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

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01. Mechanical Testing

01.016 Construction and Materials

Test method	Standard designation	Test range	Site	Field testing
KS F 2292:2019	The method of air tightness for windows and doors	(1 ~ 120) Air tightness Grade	BS-5	N
KS F 2293:2008	Test method of water tightness for windows and doors	(0 ~ 750) Pa	BS-5	N
KS F 2296:2019	Windows and door sets - Wind resistance test	(-1 200 ~ 1 200) Pa	BS-5	N
KS F 3109:2019	Door sets 9.2 Torsional strength test 9.3 Vertical load strength test 9.4 Opening and closing force test 9.5 Repeated opening and closing force test 9.6 Impact resistance test 9.7 Wind resistance test 9.8 Air tightness test 9.9 Water tightness test	(0 ~ 600) N (0 ~ 1 000) N (1 ~ 80) N (0 ~ 100 000) times 30 kg (-1 200 ~ 1 200) Pa (1 ~ 120) Air tightness Grade (0 ~ 750) Pa	BS-5	N
KS F 3117:2019	Windows Sets 9.4 Wind resistance test 9.5 Air tightness test 9.6 Water tightness test	(-1 200 ~ 1 200) Pa (1 ~ 120) Air tightness Grade (0 ~ 750) Pa	BS-5	N
MOTIE Notice No.2019-175(30.10.2019.)	Efficiency Management Equipment Operation Regulations Annex 1. 25 Window sets	(1 ~ 120) Air tightness Grade	BS-5	N

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02. Chemical Testing

02.008 Other Material and Products

Test method	Standard designation	Test range	Site	Field testing
IEC 62321-1 Ed.1.0:2013	Determination of certain substances in electro technical products - Part 1 : Introduction and overview	-	BS-2	N
IEC 62321-2 Ed.1.0:2013	Determination of certain substances in electro technical products - Part 2 : Disassembly disjointment and mechanical sample preparation	-	BS-2	N
IEC 62321-3-1 Ed.1.0:2013	Determination of certain substances in electro technical products - Part 3-1 : Screening - Lead mercury cadmium total chromium and total bromine using X-ray fluorescence spectrometry	-	BS-2	N
IEC 62321-3-2 Ed.1.0:2013	Determination of certain substances in electrotechnical products - Part 3-2 : Screening - Total bromine in polymers and electronics by Combustion - Ion Chromatography	Br : 30 mg/kg or more	BS-2	N
IEC 62321-4 Ed.1.0:2013	Determination of certain substances in electro technical products - Part 4 : Mercury in polymers metals and electronics by CV-AAS CV-AFS ICP-OES and ICP-MS	Hg : 0.5 mg/kg or more	BS-2	N
IEC 62321-5 Ed.1.0:2013	Determination of certain substances in electro technical products - Part 5 : Cadmium lead and chromium in polymers and electronics and cadmium and lead in metals by AAS AFS ICP-OES and ICP-MS	Pb : 6.0 mg/kg or more Cd : 7.0 mg/kg or more Cr : 5.0 mg/kg or more	BS-2	N

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02. Chemical Testing

02.021 Water Quality

Test method	Standard designation	Test range	Site	Field testing
ME Notice No.2018-172(05.11.2018.)	Guideline for hygienic safety of waterworks material & product 14. Fluoride 17. Nitrate-N&Nitrite-N 18. Chloride 22-2. Metals-Inductively Coupled Plasma Atomic Emission Spectrometry 22-3. Metals-Inductively Coupled Plasma Mass Spectrometry 28. Mercury 32. Hexa chromium 6. Potassium permanganate 7. Odor 8. Taste 9. Color 10. Total solids 11. Turbidity 12. Alkyl benzene sulfate 13. Free residual chlorine loss 15. Phenols 16. Cyande 35. Volatile Organic Compounds - Purge & Trap/Gas Chromatography /Mass Spectrometery 53. 2,4-Toluenediamine	0.02 mg/L or more Nitrate nitrogen 0.02 mg/L or more Nitrite nitrogen 0.1 mg/L or more 0.4 mg/L or more Copper : 0.003 mg/L or more Manganese : 0.001 mg/L or more Zinc : 0.001 mg/L or more Iron : 0.003 mg/L or more Sodium : 0.03 mg/L or more Lead : 0.000 37 mg/L or more Arsenic: 0.002 9 mg/L or more Selenium: 0.000 49 mg/L or more Cadmium: 0.000 36 mg/L or more 0.01 g/L or more 0.000 3 mg/L or more 0.3 mg/L or more - - 0.1 degree or more (2.0 ~ 2 000) mg/L (0.2 ~ 400) NTU (0.01 ~ 1.0) mg/L - (0.2 ~ 0.8) g/L (1 ~ 100) g/L Dichloromethane: 0.001 mg/L or more 1,1-dichloroethylene: 0.001 mg/L or more Trichlorethylene: 0.001 mg/L or more 1,1,1-trichloroethane: 0.001 mg/L or more Tetrachlorethylene: 0.4 g/L or more Benzene : 0.4 g/L or more	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
	54. 2,6-Toluenediamine 55. Formaldehyde 33. Nickel	Cis-1-2-dichloroethylene: 0.3 g/L or more 1,1,2-trichloroethane: 0.4 g/L or more 1,2-dichloroethane : 0.3 g/L or more Epichlorohydrin: : 0.4 g/L or more Vinyl acetate : 0.003 3 mg/L or more Styrene : 0.5 g/L or more 1,2-butadiene : 0.001 mg/L or more 1,3-butadiene : 0.7 g/L or more N, N-Dimethylaniline: 0.001 2 mg/L or more Carbon tetrachloride: 0.2 g/L or more 2,4-Toluenediamine : 0.001 mg/L or more 2,6-Toluenediamine : 0.9 g/L or more 0.006 2 mg/Lor more 0.000 7 mg/L or more		

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02. Chemical Testing

02.025 Door and Other Environment

Test method	Standard designation	Test range	Site	Field testing
ISO 12219-2:2012	Interior air of road vehicles - Part 2 : Screening method for the determination of the emissions of volatile organic compounds from vehicle interior parts and materials - Bag method	0.1 μg/m3 or more	BS-1	N
ISO 12219-4:2013	Interior air of road vehicles - Part 4 : Method for the determination of the emissions of volatile organic compounds from vehicle interior parts and materials - Small chamber method	0.1 μg/m3 or more	BS-1	N
ISO 16000-23:2018	Indoor air - Part 23 : Performance test for evaluating the reduction of formaldehyde and other carbonyl compounds concentrations by sorptive building materials	1 μg/m3 or more	BS-1	N
ISO 16000-24:2018	Indoor air - Part 24 : Performance test for evaluating the reduction of volatile organic compound concentrations by sorptive building materials	1 μg/m3 or more	BS-1	N
ISO 24353:2008	Hygrothermal performance of building materials and products - Determination of moisture sorption/desorption properties in response to humidity variation	(0 ~ 400) g/m2	BS-1	N
ISO/IEC 28360:2015	Information technology - Office equipment - Determination of chemical emission rates from electronic equipment	0.001 mg/h or more	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KS F 2611:2019	Hygrothermal performance of building materials and products - Determination of moisture adsorption/desorption properties in response to humidity variation	(0 ~ 400) g/m2	BS-1	N
KS I 2007:2009	Determination of the emission of formaldehyde and volatile organic compounds from furniture and building related products -Large chamber method	0.001 mg/h or more	BS-1	N
KS I 3546:2012	Performance test methods for evaluating the reduction of VOCs(volatile organic compounds) and aldehyde by building material - Solid phase building material	1 μg/m3 or more	BS-1	N
KS I 3547:2012	Performance test methods for evaluating the reduction of VOCs(volatile organic compounds) and aldehyde concentrations by building material -Liquid phase building material	1 μg/m3 or more	BS-1	N
KS I ISO 16000-11:2006	Indoor air-Part 11 : Determination of the emission of volatile organic compounds-Sampling, storage of samples and preparation of test specimens	-	BS-1	N
KS I ISO 16000-1:2004	Indoor air-Part 1 : General aspects of sampling strategy	-	BS-1	N
KS I ISO 16000-2:2004	Indoor air-Part 2 : Sampling strategy for formaldehyde	-	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KS I ISO 16000-3:2011	Indoor air-Part 3 : Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air - Active sampling method	1 μg/m3 or more	BS-1	N
KS I ISO 16000-6:2011	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	0.1 μg/m3 or more	BS-1	N
KS I ISO 16000-9:2006	Indoor air-Part 9 : Determination of the emission of volatile organic compounds from building products and furnishing - Emission test chamber method	0.001 mg/(m2h) or more	BS-1	N
KS M 1998:2017	Determination of the emission rate of formaldehyde and volatile organic compounds in building interior products	0.001 mg/(m2h)	BS-1	N
KS X ISO/IEC 28360:2014	Information technology - Office equipment - Determination of chemical emission rates from electronic equipment	0.001 mg/h or more	BS-1	N
NIER Notice No.2018-47(27.11.2018.)	Test methods for the examination of unintentional persistent organic pollutants - ES 10902.1a Official Method of Unintentionally Produced Persistent Organic Pollutants (UPOPs) in stationary Source Emissions by HRGC/HRMS	1 pg/m3 or more	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
NIER Notice No.2020-23(31.07.2020.)	Test methods for the examination of indoor air quality - ES 02131.1d Determination of emission of volatile organic compounds and formaldehyde from building materials by small-scale emission test chamber method - ES 02601.1c Determination of formaldehyde in indoor and emitted from building materials by 2,4-DNPH cartridge and high performance liquid chromatograph - ES 02602.1c Determination of volatile organic compounds in indoor and emitted from building materials by sorbent tube and gas chromatograph using MS/FID	0.001 mg/ (m^2h) or more 1 μg/m^3 or more 0.1 μg/m^3 or more	BS-1	N
NIER Notice No.2020-30(07.09.2020.)	Test methods for the examination of air pollutants - ES 01801.1 Benzo(a)pyrene in Ambient - Gas Chromatography - ES 01802.1 Polycyclic Aromatic Hydrocarbons in Ambient Air-Gas Chromatography/Mass Spectrometry	0.1 ng/m^3 or more 0.1 ng/m^3 or more	BS-1	N

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03. Electrical Testing

03.001 Cables, Wires and Equipment for Use Electrical-line

Test method	Standard designation	Test range	Site	Field testing
IEC 60227-1 ed3.0:2007	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
IEC 60227-2 ed2.1 Consol. with am1:2003	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
IEC 60227-3 ed2.1 Consol. with am1:1997	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
IEC 60227-4 ed2.1 Consol. with am1:1997	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
IEC 60227-5 ed3.0:2011	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
IEC 60227-6 ed3.0:2001	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
IEC 60227-7 ed1.2 Consol. with am1&2:2012	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
IEC 60228 ed3.0:2004	Conductors of insulated cables	AC 450/750 V or less	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60245-1 ed4.1 Consol. with am1:2008	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 1 : General requirements	AC 450/750 V or less	BS	N
IEC 60245-2 ed2.2 Consol. with am1&2:1998	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 2 : Test methods	AC 450/750 V or less	BS	N
IEC 60245-3 ed2.0:1994	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 3 : Heat resistant silicone insulated cables	AC 450/750 V or less	BS	N
IEC 60245-4 ed3.0:2011	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4 : Cords and flexible cables	AC 450/750 V or less	BS	N
IEC 60245-5 ed2.0:1994	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 5 : Lift cables	AC 450/750 V or less	BS	N
IEC 60245-6 ed2.0:1994	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 6 : Arc welding electrode cables	AC 450/750 V or less	BS	N
IEC 60245-7 ed1.0:1994	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 7 : Heat resistant ethylene-vinylacetate rubber insulated cables	AC 450/750 V or less	BS	N
IEC 60245-8 ed1.2 Consol. with am1&2:2012	Rubber insulated cables - 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
IEC 60332-1-2 ed1.1:2015	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

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Test method	Standard designation	Test range	Site	Field testing
IEC 60332-2-2 ed1.0:2004	Tests on electric and optical fibre cables under fire conditions - Part 2-2 : Test for vertical flame propagation for a single small insulated wire or cable - Procedure for diffusion flame	AC 450/750 V or less	BS	N
IEC 60799 ed2.0:1998	Electrical accessories - Cord sets and interconnection cord sets	AC 450/750 V or less	BS	N
KC 10028:2016	Rubber insulated cables - Rated voltages up to and including 450/750 V - Cross-linked silicone rubber insulated multi-core cable	AC 450/750 V or less	BS	N
KC 60227-1:2015	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
KC 60227-2:2015	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
KC 60227-3:2015	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
KC 60227-4:2015	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
KC 60227-5:2015	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
KC 60227-6:2015	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

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Test method	Standard designation	Test range	Site	Field testing
KC 60227-7:2015	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
KC 60228:2015	Conductors of insulated cables	(0.5 ~ 2 500) mm^2	BS	N
KC 60245-1:2015	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 1 : General requirements	AC 450/750 V or less	BS	N
KC 60245-2:2015	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 2 : Test methods	AC 450/750 V or less	BS	N
KC 60245-3:2015	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 3 : Heat resistant silicone insulated cables	AC 450/750 V or less	BS	N
KC 60245-4:2015	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4 : Cords and flexible cables	AC 450/750 V or less	BS	N
KC 60245-5:2015	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 5 : Lift cables	AC 450/750 V or less	BS	N
KC 60245-6:2015	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 6 : Arc welding electrode cables	AC 450/750 V or less	BS	N
KC 60245-7:2015	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 7 : Heat resistant ethylene-vinyl acetate rubber insulated cables	AC 450/750 V or less	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60245-8:2015	Rubber insulated cables - 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
KC 60332-1:2015	Tests on electric cables under fire conditions - Part 1 : Test on a single vertical insulated wire or cable	AC 450/750 V or less	BS	N
KC 60799:2015	Electrical accessories - Cord sets and interconnection cord sets	AC 1 000 V or less	BS	N
KS C IEC 60227-1:2014	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 60227-2:2003	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 60227-3:2005	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 60227-4:2005	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 60227-5:2011	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 60227-6:2005	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

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60227-7:2015	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 60228:2015	Conductors of insulated cables	(0.5 ~ 2 500) mm^2	BS	N
KS C IEC 60245-1:2014	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 1 : General requirements	AC 450/750 V or less	BS	N
KS C IEC 60245-2:2006	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 2 : Test methods	AC 450/750 V or less	BS	N
KS C IEC 60245-3:2013	Rubber insulated cables - 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 60245-4:2014	Rubber insulated cables - 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 60245-5:2013	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 5 : Lift cables	AC 450/750 V or less	BS	N
KS C IEC 60245-6:1994	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 6 : Arc welding electrode cables	AC 450/750 V or less	BS	N
KS C IEC 60245-7:1994	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 7 : Heat resistant ethylene-vinyl acetate rubber insulated cables	AC 450/750 V or less	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60245-8:2014	Rubber insulated cables - 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 60332-1-2:2014	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 60332-2-2:2014	Tests on electric and optical fibre cables under fire conditions - Part 2-2 : Test for vertical flame propagation for a single small insulated wire or cable - Procedure for diffusion flame	AC 450/750 V or less	BS	N
KS C IEC 60799:2002	Electrical accessories - Cord sets and interconnection cord sets	1 000 V or less	BS	N

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03. Electrical Testing

03.004 Electric Material and Parts

Test method	Standard designation	Test range	Site	Field testing
CEI 23-50:2007	Plugs and socket-outlets for household and similar purposes General requirements	440 V / 32A or less	BS	N
CEI EN 50075:1998(CEI 23-34)	Non-rewirable two-pole plugs 2.5 A 250 V, with cord, for the connection of class II equipment for household and similar purposes	440 V / 32A or less	BS	N
CTIA Battery Life Test Plan 1.1.1:2017	CTIA Battery Life Test Plan	Max. DC 50 V Max. DC 50 A (-40 ~ 160) ℃	BS-3	N
CTIA CRD 1.12: 2015	Certification Requirements for Battery System Compliance to IEEE 1625	Max. DC 1 000 V	BS-3	N
CTIA CRD 2.11:2017	Certification Requirements for Battery System Compliance to IEEE 1725	Max. DC 1 000 V	BS-3	N
IEC 60320-1:2007	Appliance couplers for household and similar general purposes - Part 1 : General requirements	AC 250 V/ 16 A or less	BS	N
IEC 60320-2-1:2000	Appliance couplers for household and similar general purposes - Part 2-1 : Sewing machine couplers	AC 250 V/ 16 A or less	BS	N
IEC 60320-2-2:1998	Appliance couplers for household and similar general purposes - Part 2-2 : Interconnection couplers for household and similar equipment	AC 250 V/ 16 A or less	BS	N
IEC 60320-2-3:2005	Appliance couplers for household and similar general purposes - Part 2-3 : Appliance couplers with a degree of protection higher than IPX0	AC 250 V/ 16 A or less	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60384-14:2014	Fixed capacitors for use in electronic equipment - Part 14 : Sectional specification : Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	AC 1 000 V or less	BS	N
IEC 60384-1:2008	Fixed capacitors for use in electronic equipment - Part1 : Generic specification	AC 1 000 V or less	BS	N
IEC 60669-1:2007	Switches for household and similar fixed-electrical installations - Part 1 : General requirements	AC 1 000 V or less	BS	N
IEC 60669-2-1:2009	Switches for household and similar fixed electrical installations - Part 2-1 : Particular requirements - Electronic switches	AC 1 000 V or less	BS	N
IEC 60669-2-2:2006	Switches for household and similar fixed electrical installations - Part 2-2 : Particular requirements - Electromagnetic remote-control switches (RCS)	AC 1 000 V or less	BS	N
IEC 60669-2-3:2006	Switches for household and similar fixed electrical installations - Part 2-3 : Particular requirements - Time-delay switches (TDS)	AC 1 000 V or less	BS	N
IEC 60730-1:2013	Automatic electrical controls - Part 1 : General Requirements	AC 1 000 V or less	BS	N
IEC 60730-2-7:2008	Automatic electrical controls for household and similar use - Part 2 : Particular requirements for timers and time switches	AC 1 000 V or less	BS	N
IEC 60799:1998	Electrical accessories - Cord sets and interconnection cord sets	AC 1 000 V or less	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60884-1:2013	Plugs and socket-outlets for household and similar purposes - Part 1 : General requirements	AC 1 000 V or less	BS	N
IEC 60884-2-1:2006	Plugs and socket-outlets for household and similar purposes - Part 2-1 : Particular requirements for fused plugs	AC 1 000 V or less	BS	N
IEC 60884-2-2:2006	Plugs and socket-outlets for household and similar purposes - Part 2-2 : Particular requirements for socket-outlets for appliances	AC 1 000 V or less	BS	N
IEC 60884-2-3:2006	Plugs and socket-outlets for household and similar purposes - Part 2-3 : Particular requirements for switched socket-outlets without interlock for fixed installations	AC 1 000 V or less	BS	N
IEC 60884-2-4:2007	Plugs and socket-outlets for household and similar purposes - Part 2-4 : Particular requirements for plugs and socket-outlets for SELV	AC 1 000 V or less	BS	N
IEC 60884-2-5:1995	Plugs and socket-outlets for household and similar purposes - Part 2-5 : Particular requirements for adaptors	AC 1 000 V or less	BS	N
IEC 60884-2-6:1997	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 1 000 V or less	BS	N
IEC 61051-1:2007	Varistors for use in electronic equipment - Part 1 : Generic specification	AC 1 000 V or less	BS	N
IEC 61058-1:2008	Switches for appliances - Part 1 : General requirements	AC 1 000 V or less	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61058-2-1:2010	Switches for appliances - Part 2-1 : Particular requirements for cord switches	AC 1 000 V or less	BS	N
IEC 61058-2-4:2003	Switches for appliances - Part 2-4 : Particular requirements for independently mounted switches	AC 1 000 V or less	BS	N
IEC 61058-2-5:2010	Switches for appliances - Part 2-5 : Particular requirements for change-over selectors	AC 1 000 V or less	BS	N
IEC 61242:2008	Electrical accessories - Cable reels for household and similar purposes	AC 1 000 V or less	BS	N
IEC 61960-3:2017	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 Max. DC 100 A (-40 ~ 160) ℃	BS-3	N
IEC 62133-1:2017	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 1: Nickel systems	Max. DC 100 V Max. DC 100 A (-40 ~ 160) ℃	BS-3	N
IEC 62133-2:2017	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems	Max. DC 100 V Max. DC 100 A (-40 ~ 160) ℃	BS-3	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 62133:2012	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.	Max. DC 1 000 V	BS-3	N
IEC 62619:2017	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. DC 1 200 V Max. DC 1 200 A (-40 ~ 160) ℃	BS-3	N
IEC 62620:2014	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for use in industrial applications	Max. DC 1 200 V Max. DC 1 200 A (-40 ~ 160) ℃	BS-3	N
IEC 62660-3:2016	Secondary lithium-ion cells for the propulsion of electric road vehicles - Part 3: Safety requirements	Max. DC 100 V Max. DC 100 A (-40 ~ 160) ℃	BS-3	N
JIS C 8714:2007	Safety tests for portable Lithium Ion secondary cells and batteries for use in portable electronic applications	Max. DC 50 V Max. DC 50 A	BS-3	N
K 10026:2013	Automatic socket-outlet to cut-off standby power	AC 250 V / 16 A or less	BS	N
K 60320-2-2:2006	Appliance couplers for household and similar general purposes - Part 2-2 : Interconnection couplers for household and similar equipment	AC 250 V / 16 A or less	BS	N
K 60730-2-10:2009	Automatic electrical controls for household and similar use - Part 2-10 : Particular requirements for motor-starting relays	AC 1 000 V or less	BS	N

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Test method	Standard designation	Test range	Site	Field testing
K 60730-2-11:2009	Automatic electrical controls for household and similar use - Part 2-11 : Particular requirements for energy regulators	AC 1 000 V or less	BS	N
K 60730-2-2:2009	Automatic electrical controls for household and similar use - Part 2-2 : Particular requirements for thermal motor protectors	AC 1 000 V or less	BS	N
K 60730-2-6:2009	Automatic electrical controls for household and similar use - Part 2-6 : Particular requirements for automatic electrical pressure sensing controls including mechanical requirements	AC 1 000 V or less	BS	N
K 60730-2-7:2009	Automatic electrical controls for household and similar use - Part 2-7 : Particular requirements for timers and time switches	AC 1 000 V or less	BS	N
K 60730-2-9:2011	Automatic electrical controls for household and similar use - Part 2-9 : Particular requirements for Temperature sensing controls	AC 1 000 V or less	BS	N
K 60799:2006	Electrical accessories - Cord sets and interconnection cord sets	AC 1 000 V or less	BS	N
KC 60320-1:2015	Appliance couplers for household and similar general purposes - Part 1 : General requirements	AC 250 V / 16 A or less	BS	N
KC 60320-2-1:2015	Appliance couplers for household and similar general purposes - Part 2-1 : Sewing machine couplers	AC 250 V / 2.5 A or less	BS	N
KC 60320-2-3:2015	Appliance couplers for household and similar general purposes - Part 2-3 : Appliance couplers with a degree of protection higher than IPX0	AC 250 V / 16 A or less	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60384-14:2015	Fixed capacitors for use in electronic equipment - Part 14 : Sectional specification : Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	AC 1 000 V or less	BS	N
KC 60384-1:2015	Fixed capacitors for use in electronic equipment - Part1 : Generic specification	AC 1 000 V or less	BS	N
KC 60669-1:2015	Switches for household and similar fixed-electrical installations - Part 1 : General requirements	AC 1 000 V or less	BS	N
KC 60669-2-1:2015	Switches for household and similar fixed-electrical installations - Part 2-1 : electronic switches	AC 1 000 V or less	BS	N
KC 60669-2-2:2015	Switches for household and similar fixed-electrical installations - Part 2-2 : electromagnetic remote control switches(RCS)	AC 1 000 V or less	BS	N
KC 60669-2-3:2015	Switches for household and similar fixed-electrical installations - Part 2-3 : time-delay switches(TDS)	AC 1 000 V or less	BS	N
KC 60730-1:2015	Automatic electrical controls for household and similar use - Part 1 : General Requirements	AC 1 000 V or less	BS	N
KC 60884-1:2015	Plugs and socket-outlets for household and similar purposes - Part 1 : General requirements	440 V / 32 A or less	BS	N
KC 60884-2-1:2015	Plugs and socket-outlets for household and similar purposes - Part 2-1 : Particular requirements for fused plugs	440 V / 32 A or less	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60884-2-2:2015	Plugs and socket-outlets for household and similar purposes - Part 2-2 : Particular requirements for socket-outlets for appliances	440 V / 16 A or less	BS	N
KC 60884-2-3:2015	Plugs and socket-outlets for household and similar purposes - Part 2-3 : Particular requirements for switched socket-outlets without interlock for fixed installations	440 V / 32 A or less	BS	N
KC 60884-2-4:2015	Plugs and socket-outlets for household and similar purposes - Part 2-4 : Particular requirements for plugs and socket-outlets for SELV	440 V / 16 A or less	BS	N
KC 60884-2-5:2015	Plugs and socket-outlets for household and similar purposes - Part 2-5 : Particular requirements for adaptors	440 V / 32 A or less	BS	N
KC 60884-2-6:2015	Plugs and socket-outlets for household and similar purposes - Part 2-6 : Particular requirements for switched socket-outlets with interlock for fixed electrical installations	440 V / 32 A or less	BS	N
KC 60939-1:2015	Complete filter units for radio interference suppression - Part 1 : Generic specification	AC 1 000 V or less	BS	N
KC 60939-2:2015	Complete filter units for radio interference suppression - Part 2 : Sectional specification	AC 1 000 V or less	BS	N
KC 61048:2015	Auxiliaries for lamps - Capacitors for use in tubular fluorescent and other discharge lamp circuits - General and safety requirements	AC 1 000 V or less	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KC 61058-1:2015	Switches for appliances- Part 1 : General requirements	AC 1 000 V or less	BS	N
KC 61058-2-1:2015	Switches for appliances - Part 2-1 : Particular requirements for cord switches	AC 1 000 V or less	BS	N
KC 61058-2-4:2015	Switches for appliances - Part 2-4 : Particular requirements for independently mounted switches	AC 1 000 V or less	BS	N
KC 61058-2-5:2015	Switches for appliances - Part 2-5 : Particular requirements for change-over selectors	AC 1 000 V or less	BS	N
KC 61242:2015	Electrical accessories - Cable reels for household and similar purposes	AC 250 V / 16 A or less	BS	N
KC 62133-2:2020	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems	Max. DC 100 V Max. DC 100 A (-40 ~ 160) ℃	BS-3	N
KC 62133:2019	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.	Max. DC 100 V Max. DC 100 A	BS-3	N
KC 62619:2019	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. DC 1 200 V Max. DC 1 200 A (-40 ~ 160) ℃	BS-3	N

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Test method	Standard designation	Test range	Site	Field testing
KS C 8305:2011	Plugs and socket-outlets for domestic and similar purposes	AC 440 V/ 32 A or less	BS	N
KS C IEC 60320-1:2012	Appliance couplers for household and similar general purposes - Part 1 : General requirements	AC 250 V/ 16 A or less	BS	N
KS C IEC 60320-2-2:2014	Appliance couplers for household and similar general purposes - Part 2-2 : Interconnection couplers for household and similar equipment	AC 250 V/ 16 A or less	BS	N
KS C IEC 60384-14:2006	Fixed capacitors for use in electronic equipment - Part 14 : Sectional specification : Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	AC 1 000 V or less	BS	N
KS C IEC 60384-1:2015	Fixed capacitors for use in electronic equipment - Part1 : Generic specification	AC 1 000 V or less	BS	N
KS C IEC 60884-1:2010	Plugs and socket-outlets for household and similar purposes - Part 1 : General requirements	AC 440 V/ 32 A or less	BS	N
KS C IEC 61960-3:2017	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 Max. DC 100 A (-40 ~ 160) ℃	BS-3	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 62133-2:2017	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 Max. DC 100 A (-40 ~ 160) ℃	BS-3	N
KS C IEC 62619:2017	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. DC 1 200 V Max. DC 1 200 A (-40 ~ 160) ℃	BS-3	N
KS C IEC 62620:2015	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for use in industrial applications	Max. DC 1 200 V Max. DC 1 200 A (-40 ~ 160) ℃	BS-3	N
PSE ordinance	Circular Notice of Interpretation for the Ministerial Order to provide of Technical Standards for Electrical Appliances and Materials Appendix Table 9 (Lithium Ion Secondary Batteries): 2019	Max. DC 100 V Max. DC 100 A (-20 ~ 75) ℃	BS-3	N
SPS-C KBIA-10104-03-7312	Secondary lithium-ion cells and battery systems for the battery energy storage systems - Part 3: Performance and Safety requirements	Max. DC 1 200 V Max. DC 1 200 A	BS-3	N
UN Document	Manual of tests and criteria; Seventh revised edition section 38.3 : 2019	Input Voltage : DC (0 ~ 100) V Input Current : (0 ~ 100) A Testing temperature : (-40 ~ 75) ℃	BS-3	N

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03. Electrical Testing

03.005 Measuring Instrument Characteristic Test

Test method	Standard designation	Test range	Site	Field testing
IEC 60145:1963	Var-hour(reactive energy) meters	AC 600 V or less	BS-2	N
IEC 61869-1:2007	Instrument transformers - Part 1: General requirements 7.2.6 Test for accuracy	AC 110 kV, AC 10 kA or less	BS-2	N
IEC 61869-2:2012	Instrument transformers - Part 2: Additional requirements for current transformers 7.2.6 Test for accuracy	AC 10 kA or less	BS-2	N
IEC 61869-3:2011	Instrument transformers - Part 3: Additional requirements for inductive voltage transformers 7.2.6 Test for accuracy	AC 110 kV or less	BS-2	N
IEC 61869-6:2016	Instrument transformers - Part 6: Additional general requirements for low-power instrument transformers 7.2.6 Test for accuracy	AC 230 V, DC 220 V or less	BS-2	N
IEC 62052-11:2003	Electricity metering equipment(AC)-General requirements tests and test conditions - Part 11 : Metering equipment	AC 600 V or less	BS-2	N
IEC 62053-11:2003	Electricity metering equipment(a.c.)-Particular requirements - Part 11 : Electro mechanical meters for active energy (classes 0.5 1 and 2)	AC 600 V or less	BS-2	N
IEC 62053-21 Ed.1.0:2003	Electricity metering equipment(a.c.)-Particular requirements - Part 21 : Static meters for active energy (classes 1 and 2)	AC 600 V or less	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 62053-22 Ed.1.0:2003	Electricity metering equipment(a.c.) - Particular requirements - Part 22 : Static meters for active(classes 0.2 S and 0.5 S)	AC 600 V or less	BS-2	N
IEC 62053-23 Ed.1.0:2003	Electricity metering equipment(a.c.)-Particular requirements - Part 23 : Static meters for reactive (classes 2 and 3)	AC 600 V or less	BS-2	N
KS C 1208:2010	Alternating-current watt-hour meters	AC 600 V or less	BS-2	N
KS C 1214:2010	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	Instrument transformers for metering service 9.2 Characteristic of Current 9.3 Characteristic of Voltage	AC 110 kV, AC 5 kA or less	BS-2	N
KS C IEC 60044-1:2003	Instrument transformers - Part 1 : Current Transformers 11.4 Type tests for accuracy of measuring current transformers	AC 10 kA or less	BS-2	N
KS C IEC 60044-2:2003	Instrument transformers - Part 2 : Inductive voltage Transformers 12.3 Type tests for accuracy of measuring voltage transformers	AC 110 kV or less	BS-2	N
KS C IEC 60145:2003	Var-hour(reactive energy) meters	AC 600 V or less	BS-2	N
KS C IEC 62052-11:2005	Electricity metering equipment(AC) - General requirements, tests and test conditions-Part 11 : Metering equipment	AC 600 V or less	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 62053-11:2003	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	Electricity metering equipment(AC) - Particular requirements - Part 21 : Static meters for active energy (Classes 1 and 2)	AC 600 V or less	BS-2	N
KS C IEC 62053-22:2003	Electricity metering equipment(AC) - Particular requirements - Part 22 : Static meters for active (Classes 0.2 S and 0.5 S)	AC 600 V or less	BS-2	N
KS C IEC 62053-23:2005	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(01.07.2016.)	Watt - hour meters technical standards	AC 600 V or less	BS-2	N
MOTIE Notice No.2018-206(20.11.2018.)	Watt - hour meters technical standards	AC 600 V, DC 500 V or less	BS-2	N
MOTIE Notice No.2020-017(19.02.2020.)	Electric vehicle chargers technical standards	AC 600 V, DC 1 000 V or less	BS-2	N
Kepco registered purchase standard(GS-5963-0008:2017)	Hall Effect Type Current Sensor Modules for Low Voltage 6.3.2 Test of Output error 6.3.3 Test or Insulation Resistance	AC 250 A or less	BS-2	N
Kepco registered purchase standard(GS-6625-0012:2002)	Alternating-current Watt-hour Meters for Connection through Instrument Transformer	AC 600 V or less	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
Kepco registered purchase standard(GS-6625-0015:2010)	Static Meters for Low Voltage	AC 600 V or less	BS-2	N
Kepco registered purchase standard(GS-6625-0037:2018)	G-Type Static Meters for Low Voltage	AC 600 V or less	BS-2	N
Kepco registered purchase standard(GS-6625-0055:2017)	Advanced E-Type Static Meters for Low Voltage	AC 600 V or less	BS-2	N
Kepco registered purchase standard(GS-6625-0060:2016)	Solid State Recording Electronic Meter	AC 600 V or less	BS-2	N
Kepco registered purchase standard(GS-6625-0060:2018)	Solid State Recording Electronic Meter	AC 600 V or less	BS-2	N
Kepco registered purchase standard(GS-6625-0061:2017)	E-Type Static Meters for Low Voltage	AC 600 V or less	BS-2	N
Kepco registered purchase standard(GS-6625-0062:2012)	Solid Static Watt-hour Meters with CT for Low Voltage	AC 600 V or less	BS-2	N

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03. Electrical Testing

03.006 Industrial Electrical Machinery Apparatus

Test method	Standard designation	Test range	Site	Field testing
EN 60112:2003	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	AC 600 V or less	BS-1	N
GS-5945-0019:2013	IED of Station Power, Disaster Prevention and Security	DC 125 V or less Contact capacity 30 A or less	BS-1	N
GS-5945-0020 : 2013	Under frequency Protection Intelligent Electronic Device	DC 125 V or less Contact capacity 30 A or less	BS-1	N
GS-5945-0021:2013	Overvoltage Protection Intelligent Electronic Device	DC 125 V or less Contact capacity 30 A or less Time overvoltage element 160 V or less	BS-1	N
GS-5945-0022:2017	Control Intellignet Electronic Device for Transformer	DC 125 V or less Contact capacity 30 A or less	BS-1	N
GS-5945-0023:2013	Current Ratio Differential Protection Intelligent Electronic Device For Transformer	DC 125 V or less Contact capacity 30 A or less Time overcurrent element 100 A or less	BS-1	N
GS-5945-0024:2017	Overcurrent Protection Intelligent Electronic Device with Reclosing	DC 125 V or less Contact capacity 30 A or less Time overcurrent element 80 A or less	BS-1	N
GS-5945-0025:2017	Overcurrent Protection Intelligent Electronic Device	DC 125 V or less Contact capacity 30 A or less Time overcurrent element 80 A or less	BS-1	N
GS-5945-0026:2013	Undervoltage Protection Intelligent Electronic Device	DC 125 V or less Contact capacity 30 A or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
GS-5945-0027:2017	Directional Overcurrent Protection Intelligent Electronic Device	DC 125 V or less Contact capacity 30 A or less Time overcurrent element 80 A or less	BS-1	N
GS-5945-0028:2017	Overcurrent Protection Intelligent Electronic Device	AC 220 V or less, DC 125 V or less Contact capacity 30 A or less Time overcurrent element 80 A or less	BS-1	N
GS-5945-0029:2017	Directional Overcurrent Protection Intelligent Electronic Device	AC 220 V or less, DC 125 V or less Contact capacity 30 A or less Time overcurrent element 80 A or less	BS-1	N
GS-6110-0074:2018	154kV Main Transformer Protection Panel	AC 220 V or less, DC 125 V or less Contact capacity 30 A or less Time overcurrent element 80 A or less Time overvoltage element 160 V or less	BS-1	N
GS-6110-0089:2013	154kV T/L IED Panel with PCM Current Differential Scheme	AC 220 V or less, DC 125 V or less Contact capacity 30 A or less	BS-1	N
GS-6110-0090:2013	154kV Short Distance T/L IED Panel with PCM Current Differential Scheme	AC 220 V or less, DC 125 V or less Contact capacity 30 A or less Time overcurrent element 80 A or less	BS-1	N
GS-6110-0094:2017	154kV Substation Automation Operating System	AC 220 V or less, DC 125 V or less	BS-1	N
GS-6110-0097:2018	154kV Hybrid Substation Automation Operating System	AC 220 V or less, DC 125 V or less	BS-1	N
GS-6110-0098:2018	345kV Hybrid Substation Automation Operating System	AC 220 V or less, DC 125 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
GS-6110-0247:2012	Station Power, Disaster prevention and Security Panel with Intelligent Electronic Devices	DC 125 V or less Contact capacity 30 A or less	BS-1	N
GS-6110-0263:2018	On-line Partial Discharge diagnostic System for Under ground Transmission Line	DC 125 V or less Sensor Freq. 300 MHz or less	BS-1	N
GS-6110-0265:2017	154kV Main Transformer Protection IED Panel	AC 220 V or less, DC 125 V or less Contact capacity 30 A or less Time overcurrent element 80 A or less Time overvoltage element 160 V or less	BS-1	N
GS-6110-0269:2018	Substation total diagnostic system	DC 125 V or less Contact capacity 30 A or less	BS-1	N
GS-6110-0270:2016	Directional Overcurrent Realy Scheme for 154kV Customer T/L IED Panel	AC 220 V or less, DC 125 V or less Contact capacity 30 A or less Time overcurrent element 80 A or less	BS-1	N
GS-6110-0271:2016	Nondirectional Overcurrent Realy Scheme for 154kV Customer T/L IED Panel	AC 220 V or less, DC 125 V or less Contact capacity 30 A or less	BS-1	N
IEC 60079-0:2017	Explosive atmosphere - Part 0 : Equipment-General requirements 〈Exception〉 26.11 Resistance to chemical agents for Group I electrical apparatus	Max. Surface Temp. 1 000 ℃	BS-1	N
IEC 60079-11:2011	Explosive atmospheres - Part 11 : Equipment protection by intrinsic safety “i”	-	BS-1	N
IEC 60079-15:2017	Explosive atmospheres - Part 15 : Equipment protection by type of protection “n”	-	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60079-18:2014+AMD1:2017	Explosive atmospheres - Part 18 : Equipment protection by encapsulation “m”	Max. Surface Temp. 1 000 ℃	BS-1	N
IEC 60079-1:2014	Explosive atmospheres - Part 1 : Equipment protection by flameproof enclosures “d”	-	BS-1	N
IEC 60079-26:2014	Explosive atmospheres - Part 26 : Equipment With Equipment Protection Level (EPL) Ga	-	BS-1	N
IEC 60079-28:2015	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation 〈Exception〉 6.2 Verification of suitability of test set-up for type tests 6.3 Type tests	1 μW ~ 3 W	BS-1	N
IEC 60079-2:2014	Explosive atmospheres - Part 2 : Equipment protection by pressurized enclosure “p”	-	BS-1	N
IEC 60079-31:2013	Explosive atmospheres - Part 31 : Equipment dust ignition protection by enclosure “t”	-	BS-1	N
IEC 60079-5:2015	Explosive atmospheres - Part 5 : Equipment protection by powder filling “q”	-	BS-1	N
IEC 60079-6:2015	Explosive atmospheres - Part 6 : Equipment protection by liquid immersion “o”	-	BS-1	N
IEC 60079-7:2015+AMD1:2017	Explosive atmospheres - Part 7 : Equipment protection by increased safety “e”	Max. Surface Temp. 1 000 ℃	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60255-1 Edition 1.0 2009-08	Measuring Relays and Protection Equipment Part 1 : Common requirements	0.9 ~ 1 A, ≥ 5 ~ 30 A, 500 V ± l0 %, 500 V d.c., 12 V r.ms. ac or 12 V d.c., 30 mV ~ 230 V, 0.1 Ω or less, 10 MΩ or more, 100 MΩ or more, ≥ 30 ~ 1 000 W at L/R = 40 ms, -40 ℃ ~ 70 ℃/ ±3 ℃/ 1 ℃ ± 0.2 ℃/min, 93 ± 3 %, 60 % ± 10 %, 97 %, -2 % +3 %, 45 ~ 75 % RH, 86 ~ 106 kPa, 50 Hz or 60 Hz ±0.2 %	BS-1	N
IEC 60255-27 Edition 2.0 2013-10	Measuring Relays and Protection Equipment Part 27 : Product safety requirements	0.9 ~ 1 A, ≥ 5 ~ 30 A, 500 V ± l0 %, 500 V d.c., 12 V r.ms. ac or 12 V d.c., 30 mV ~ 230 V, 0.1 Ω or less, 10 MΩ or more, 100 MΩ or more, ≥ 30 ~ 1 000 W at L/R = 40 ms, -40 ℃ ~ 70 ℃, ±3 ℃, 1 ℃ ± 0.2 ℃/min, 93 ± 3 %, 60 % ± 10 %, 97 %, -2 % +3 %, 45 ~ 75 % RH, 86 ~ 106 kPa, 50 Hz or 60 Hz ±0.2 %	BS-1	N
IEC 60529:1989+AMD1:1999+AMD2:2013 CSV/COR2:2015	Degrees of protection provided by enclosures (IP Code)	IP1X - IP6X IPX1 - IPX9	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60745-1:2006	Hand-held motor-operated electric tools - Safety - Part 1 : General requirements	single phase : 250 V or less three phase : 440 V or less	BS-1	N
IEC 60745-2-14:2010	Hand-held motor-operated electric tools - Safety - Part 2-14 : Particular requirements for planers	single phase : 250 V or less three phase : 440 V or less	BS-1	N
IEC 60745-2-1:2008	Hand-held motor-operated electric tools - Safety - Part 2-1 : Particular requirements for drills and impact drills	single phase : 250 V or less three phase : 440 V or less	BS-1	N
IEC 60745-2-2:2008	Hand-held motor-operated electric tools - Safety - Part 2-2 : Particular requirements for screwdrivers and impact wrenches	single phase : 250 V or less three phase : 440 V or less	BS-1	N
IEC 60745-2-3:2012	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 three phase : 440 V or less	BS-1	N
IEC 60745-2-4:2008	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 three phase : 440 V or less	BS-1	N
IEC 60745-2-5:2010	Hand-held motor-operated electric tools - Safety - Part 2-5 : Particular requirements for circular saws	single phase : 250 V or less three phase : 440 V or less	BS-1	N
IEC 60825-1:2014	Safety of laser products - Part 1 : Equipment classification and requirements	wavelength : (250 ~ 2 500) nm Optical power : 1 W or less	BS-1	Y
IEC 60825-2:2010	Safety of laser products - Part 2 : Safety of optical fibre communication systems(OFCS)	wavelength : (250 ~ 2 500) nm Optical power : 1 W or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 60974-1:2012	Arcwelding equipment - Part 1 : Welding power sources	AC 400 V or less	BS-1	N
IEC 61010-1:2010+AMD1:2016	Safety requirements for electrical equipment for measurement control and laboratory use - Part 1 : General requirements	AC 600 V or less	BS-1	N
IEC 61010-2-010:2014	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-010 : Particular requirements for laboratory equipment for the heating of materials	AC 600 V or less	BS-1	N
IEC 61010-2-011:2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011 : Particular requirements for refrigerating equipment	AC 600 V or less	BS-1	N
IEC 61010-2-020:2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020 : Particular requirements for laboratory centrifuges	AC 600 V or less	BS-1	N
IEC 61010-2-040:2015	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-040 : Particular requirements for sterilizers and Washer-disinfectors used to treat medical materials	AC 600 V or less	BS-1	N
IEC 61010-2-051:2015	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-051 : Particular requirements for laboratory equipment for mixing and stirring	AC 600 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61010-2-081:2015	Safety requirements for electrical equipment for measurement, control and laboratory use - 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 61010-2-101:2015	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2 - 101 : Particular requirements for in vitro diagnostic(IVD) medical equipment	AC 600 V or less	BS-1	N
IEC 61558-1:2009	Safety of power transformers power supply units and similar - Part 1 : General requirements and tests	AC 1 kV or less	BS-1	N
IEC 61558-2-16:2013	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 swtch 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	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

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Test method	Standard designation	Test range	Site	Field testing
IEC 61558-2-2:2007	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	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	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
IEC 61850-10:2012	Communication networks and systems in substations - Part 10 : Conformance testing	UC Alug Server & Client	BS-1	N
IEC 62052-11:2003	Electricity metering equipment(AC) - General requirements tests and test conditions - Part 11 : Metering equipment - 5.8. Resistance to heat and fire - 5.9. Protection against penetration of dust and water	AC 600 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 62053-11:2003	Electricity metering equipment(a.c.) - Particular requirements - Part 11 : Electro mechanical meters for active energy (classes 0.5 1 and 2) - 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	Electricity metering equipment(a.c.) - Particular requirements - Part 21 : Static meters for active energy (classes 1 and 2) - 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	Electricity metering equipment(a.c.) - Particular requirements - Part 22 : Static meters for active (classes 0.2 S and 0.5 S) - 5. Resistance to heat and fire, Protection against penetration of dust and water	AC 600 V or less	BS-1	N
IEC 62053-23:2003	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
IEEE C37.90:2005	IEEE Standard for Relays and Relay Systems Associated with Electric Power Apparatus	Rated Current Input : 32 A or less Rated Voltage Input : 300 V or less	BS-1	N
IEEE Std 2030.5-2018	IEEE Standard for Smart Energy Profile Application Protocol	All	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
ISO 80079-36:2019	Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements	Max. Surface Temp. 1 000 ℃	BS-1	N
ISO 80079-37:2016	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. Surface Temp. 1 000 ℃ Max. 25 Mpa	BS-1	N
K 60974-10:2009	Arc welding equipment - Part 10 : Electromagnetic compatibility(EMC) requirements	250 A or less 30 V or less load	BS-1	N
K 60974-11:2009	Arc welding equipment - Part 11 : Electrode holders	250 A or less 30 V or less load	BS-1	N
K 60974-12:2009	Arc welding equipment - Part 12 : Coupling devices for welding cables	250 A or less 30 V or less load	BS-1	N
K 60974-1:2009	Arc welding equipment - Part 1 : Welding power sources	AC 400 V or less	BS-1	N
K 60974-2:2009	Arc welding equipment - Part 2 : Liquid cooling systems	250 A or less 30 V or less load	BS-1	N
K 60974-3:2009	Arc welding equipment - Part 3 : Arc striking and stabilizing devices	250 A or less 30 V or less load	BS-1	N
K 60974-4:2009	Arc welding equipment - Part 4 : In-service inspection and testing	250 A or less 30 V or less load	BS-1	N
K 60974-5:2009	Arc welding equipment - Part 5 : Wire feeders	250 A or less 30 V or less load	BS-1	N
K 60974-7:2009	Arc welding equipment - Part 7 : Torches	250 A or less 30 V or less load	BS-1	N
K 60974-8:2009	Arc welding equipment - Part 8 : Gas consoles for welding and plasma cutting systems	250 A or less 30 V or less load	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
K 61558-2-6:2015	Safety of power transformers, power supply units and similar devices - Part 2 : Particular requirements for safety isolating transformers for general use	AC 1 kV or less	BS-1	N
KC 60529:2015	Degrees of Protection Provided by Enclosures(IP code)	-	BS-1	N
KC 60745-1:2015	Hand-held motor-operated electric tools -Safety - Part 1 : General requirements	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-11:2015	Hand-held motor-operated electric tools - Part 2-11 : particular requirements for hammers	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-12:2015	Hand-held motor-operated electric tools - Part 2-12 : particular requirements for concrete vibrators	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-13:2015	Hand-held motor-operated electric tools - Part 2-13 : particular requirements for chain saws	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-14:2015	Hand-held motor-operated electric tools - Safety - Part 2-14 : Particular requirements for planers	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-15:2015	Hand-held motor-operated electric tools - Part 2-15 : particular requirements for hedge trimmers	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-16:2015	Hand-held motor-operated electric tools - Part 2-16 : particular requirements for tackers	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-17:2015	Hand-held motor-operated electric tools - Part 2-17 : particular requirements for routers and trimmers	single phase : 250 V or less three phase : 440 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60745-2-1:2015	Hand-held motor-operated electric tools - Safety - Part 2-1 : Particular requirements for drills and impact drills	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-2:2015	Hand-held motor-operated electric tools - Safety - Part 2-2 : Particular requirements for screwdrivers and impact wrenches	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-3:2015	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 three phase : 440 V or less	BS-1	N
KC 60745-2-4:2015	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 three phase : 440 V or less	BS-1	N
KC 60745-2-5:2016	Hand-held motor-operated electric tools - Safety - Part 2-5 : electricity Particular requirements for circular saws	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-6:2015	Hand-held motor-operated electric tools - Part 2-6 : particular requirements for hammers	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-8:2015	Hand-held motor-operated electric tools - Part 2-8 : particular requirements for shears and nibblers	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60745-2-9:2015	Hand-held motor-operated electric tools - Part 2-9 : particular requirements for tappers	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 60974-6:2015	Arc welding equipment - Part 6 : Limited duty manual metal arc welding power sources	250 A or less 30 V or less load	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 61029-1:2015	Safety of transportable motor-operated electric tools - Part 1 : general requirements	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 61029-2-10:2015	Safety of transportable motor-operated electric tools - Part 2-10 : particular requirements for cutting-off grinders	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 61029-2-1:2015	Safety of transportable motor-operated electric tools - Part 2-1 : particular requirements for circular saws	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 61029-2-2:2015	Safety of transportable motor-operated electric tools - Part 2-2 : particular requirements for radial arm saws	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 61029-2-3:2015	Safety of transportable motor-operated electric tools - Part 2-3 : particular requirements for planers and thicknessers	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 61029-2-4:2015	Safety of transportable motor-operated electric tools - Part 2-4 : particular requirements for bench grinders	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 61029-2-5:2015	Safety of transportable motor-operated electric tools - Part 2-5 : particular requirements for band saws	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 61029-2-6:2015	Safety of transportable motor-operated electric tools - Part 2-6 : particular requirements for diamond drills with water supply	single phase : 250 V or less three phase : 440 V or less	BS-1	N
KC 61029-2-7:2015	Safety of transportable motor-operated electric tools - Part 2-7 : particular requirements for diamond saws with water supply	single phase : 250 V or less three phase : 440 V or less	BS-1	N

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

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Test method	Standard designation	Test range	Site	Field testing
KC 61558-2-4:2015	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	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) - 7.22. Protection against penetration of dust and water - 7.23. Resistance to heat and fire	AC 600 V or less	BS-1	N
KS C IEC 60079-0:2019	Explosive atmosphere -Part 0 : Equipment-General requirements 〈Exception〉 26.11 Resistance to chemical agents	Max. Surface Temp. 1 000 ℃	BS-1	N
KS C IEC 60079-11:2011	Explosive atmospheres - Part 11 : Equipment protection by intrinsic safety “i”	-	BS-1	N
KS C IEC 60079-15:2017	Explosive atmospheres - Part 15 : Equipment protection by type of protection “n”	Max. Surface Temp. 1 000 ℃	BS-1	N
KS C IEC 60079-18:2014	Explosive atmospheres - Part 18 : Equipment protection by encapsulation “m”	Max. Surface Temp. 1 000 ℃	BS-1	N
KS C IEC 60079-1:2019	Explosive atmospheres - Part 1 : Equipment protection by flameproof enclosures “d”	Max. Surface Temp. 1 000 ℃	BS-1	N
KS C IEC 60079-2:2014	Explosive atmospheres - Part 2 : Equipment protection by pressurized enclosure “p”	Max. Surface Temp. 1 000 ℃	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60079-5:2015	Explosive atmospheres - Part 5 : Equipment protection by powder filling “q”	Max. Surface Temp. 1 000 ℃	BS-1	N
KS C IEC 60079-6:2015	Explosive atmospheres - Part 6 : Equipment protection by liquid immersion “o”	Max. Surface Temp. 1 000 ℃	BS-1	N
KS C IEC 60079-7:2015	Explosive atmospheres - Part 7 : Equipment protection by increased safety “e”	-	BS-1	N
KS C IEC 60255-1:2014	Measuring Relays and Protection Equipment Part 1: Common requirements	0.9 ~ 1 A, ≥5 ~ 30 A, 500 V ± 10 %, 500 V d.c., 12 V rms. ac or 12 V d.c., 30 mV ~ 230 V, ≤0.1 Ω, ≥10 MΩ, ≥100 MΩ, ≥30 ~ 1 000 W at L/R = 40 ms, -40 ℃ ~ 70 ℃, ±3 ℃, 1 ℃ ± 0.2 ℃/min, 93 ± 3 %, 60 % ± 10 %, 97 %, -2 % +3 %, 45 ~ 75 % RH, 86 ~ 106 kPa, 50 Hz or 60 Hz ±0.2 %	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60255-27:2015	Measuring Relays and Protection Equipment Part 27: Product safety requirements	0.9 ~ 1 A, ≥5 ~ 30 A, 500 V ± l0 %, 500 V d.c., 12 V rms. ac or 12 V d.c., 30 mV ~ 230 V, ≤0.1 Ω, ≥10 MΩ, ≥100 MΩ, ≥30 ~ 1 000 W at L/R = 40 ms, -40 ℃ ~ 70 ℃, ±3 ℃, 1 ℃ ± 0.2 ℃/min, 93 ± 3 %, 60 % ± 10 %, 97 %, -2 % +3 %, 45 ~ 75 % RH, 86 ~ 106 kPa, 50 Hz or 60 Hz ±0.2 %	BS-1	N
KS C IEC 60529:2017	Degrees of Protection Provided by Enclosures(IP code)	IP1X - IP6X IPX1 - IPX9	BS-1	N
KS C IEC 60825-1:2017	Safety of laser products - Part 1 : Equipment classification and requirements	wavelength : (250 ~ 2 500) nm power : 1 W or less	BS-1	Y
KS C IEC 60825-2:2015	Safety of laser products -Part 2 : Safety of optical fibre communication systems (OFCS)	wavelength : (250 ~ 2 500) nm Optical power : 1 W or less	BS-1	Y
KS C IEC 61850-10:2006	Communication networks and systems in substations - Part 10 : Conformance testing	UC Alug Server & Client	BS-1	N
KS C IEC 62052-11:2005	Electricity metering equipment(AC)-General requirements, tests and test conditions - Part 11 : Metering equipment - 5.8. Resistance to heat and fire - 5.9. Protection against penetration of dust and water	AC 600 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 62053-11:2003	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 - 5.7. nonflammable	AC 600 V or less	BS-1	N
KS C IEC 62053-21:2003	Electricity metering equipment(AC)-Particular requirements - Part 21 : Static meters for active energy (Classes 1 and 2) - 5.2.4. Resistance to heat and fire - 5.2.5. Protection against penetration of dust and water	AC 600 V or less	BS-1	N
KS C IEC 62053-22:2003	Electricity metering equipment(AC)-Particular requirements - Part 22 : Static meters for active (Classes 0.2 S and 0.5 S) - 5.2.4. Resistance to heat and fire - 5.2.5. Protection against penetration of dust and water	AC 600 V or less	BS-1	N
KS C IEC 62053-23:2005	Electricity metering equipment(AC)-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
SPS-KEMC 1120-0579:2018	Digital protective relay	AC 220 V or less Impulse 5 kV or less Dielectric test 2 kV or less Insulation resistance 100 Mohm or more	BS-1	N
MOTIE Notice No.2018-206(20.11.2018.)	Watt-hour meters technical standards 12.5 Heat and fire history 12.6 Protection against penetration of dust / water	AC 600 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
Kepco registered purchase standard (GS-6625-0015:2010)	Static Meters for Low Voltage - 7.4.7.4. Resistance to heat and fire - 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)	Solid State Recording Electronic Meter - 7.3.7.4. Resistance to heat and fire - 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)	E-Type Static Meters for Low Voltage - 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 Domestic Electrical Machinery Apparatus

Test method	Standard designation	Test range	Site	Field testing
ABNT NBR IEC 60065:2009	Audio Video and similar electronic apparatus - Safety requirements	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
ABNT NBR NM 60335-1: 2010	Household and similar electrical appliances - Safety - Part 1 : General requirements	Input : (3 ~ 450) V, 50 A	BS-1	N
IEC 60065 ed8.0 (2014-06)	Audio Video and similar electronic apparatus - Safety requirements	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃ 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60065 ed8.0:2014	Audio, Video and similar electronic apparatus - Safety requirements 〈Exception〉 6.2 Laser radiation 7.2 Heat resistance of insulating material 18 Mechanical strength of picture tubes and protection against the effects of implosion	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60268-1 Amd 2:1988	Sound system equipment. - Part 1: General	Sensitivity : 50 mV/Pa Frequency : 6.3 Hz ~ 20 kHz	BS-1	N
IEC 60268-11 Amd 2:1991	Sound system equipment - Part 11: Application of connectors for the interconnection of sound system components	Sensitivity : 50 mV/Pa Frequency : 6.3 Hz ~ 20 kHz	BS-1	N
IEC 60268-12 Amd 2:1994	Sound system equipment. - Part 12: Application of connectors for broadcast and similar use.	Sensitivity : 50 mV/Pa Frequency : 6.3 Hz ~ 20 kHz	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60268-2 Amd 1:1991	Sound system equipment. - Part 2: Explanation of general terms and calculation methods	Sensitivity : 50 mV/Pa Frequency : 6.3 Hz ~ 20 kHz	BS-1	N
IEC 60268-3 Ed. 4.0:2013	Sound system equipment - Part 3: Amplifiers	Output power : (0 ~ 5 000) W	BS-1	N
IEC 60335-1 ed5.2:2016	Household and similar electrical appliances -Safety - Part 1 : General requirements 〈Exception〉 15.1.1 IPX5, IPX6 19.11.4.1, 19.11.4.2, 19.11.4.3, 19.11.4.4, 19.11.4.5, 19.11.4.6, 19.11.4.7	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-1:2016	Safety of household and similar electrical appliances - Safety - Part 1 : General requirements	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-10 ed5.1 Consol. with am1:2008-07	Household and similar electrical appliances - Safety - Part 2-10 : Particular requirements for floor treatment machines and wet scrubbing machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-101 ed1.2 Consol. With am1&2:2014-08	Household and similar electrical appliances - Safety - Part 2-101 : Particular requirements for vaporizers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-10:2008	Household and similar electrical appliances - Safety - Part 2-10 : Particular requirements for floor treatment machines and wet scrubbing machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-11 ed7.1:2012-10	Household and similar electrical appliances - Safety - Part 2-11 : Particular requirements for tumble dryers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-11:2019	Household and similar electrical appliances - Safety - Part 2-11 : Particular requirements for tumble dryers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-12 ed5.1:2008-07	Household and similar electrical appliances - Safety - Part 2-12 : Particular requirements for warming plates and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-13 ed6.0:2009-12	Household and similar electrical appliances - Safety - Part 2-13 : Particular requirements for deep fat fryers, frying pans and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-13:2016	Household and similar electrical appliances - Safety - Part 2-13 : Particular requirements for deep fat fryers, frying pans and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-14 ed5.2 Consol. with am1&2:2012-11	Household and similar electrical appliances - Safety - Part 2-14 : Particular requirements for kitchen machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-14:2019	Household and similar electrical appliances - Safety - Part 2-14 : Particular requirements for kitchen machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-15 ed6.0:2012-11	Household and similar electrical appliances - Safety - Part 2-15 : Particular requirements for appliances for Heating liquids	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-15:2018	Household and similar electrical appliances - Safety - Part 2-15 : Particular requirements for appliances for heating liquids	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-17:2019	Household and similar electrical appliances - Safety - Part 2-17 : Particular requirements for blankets, pads, clothing and similar flexible heating appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-2 ed6.1 Consol. with am1:2012-11	Household and similar electrical appliances Safety - Part 2-2 : Particular requirements for vacuum cleaners and water-suction cleaning appliances 〈Exception〉 21 Mechanical strength 21.101, 21.102, 21.103, 21.104, 21.105	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-21 ed6.0:2012	Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heater	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-21:2018	Household and similar electrical appliances - Safety - Part 2-21 : Particular requirements for storage water heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-23 ed5.2 Consol. with am1&2:2012-03	Household and similar electrical appliances - Safety - Part 2-23 : Particular requirements for appliances for skin or hair care	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-23:2019	Household and similar electrical appliances - Safety - Part 2-23 : Particular requirements for appliances for skin or hair care	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-24 ed7.1:2012	Household and similar electrical appliances - Safety - Part 2-24 : Particular requirements for refrigerating appliances ice-cream appliances and ice-makers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-24:2017	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-25 ed6.2:2015	Household and similar electrical appliances - Safety - Part 2-25 : Particular requirements for microwave ovens	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-25:2020	Household and similar electrical appliances - Safety - Part 2-25 : Particular requirements for microwave ovens, including combination microwave ovens	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-26 ed4.1 Consol. with am1:2008-07	Household and similar electrical appliances - Safety - Part 2-26 : Particular requirements for clocks	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-27 ed5.1 Consol. with am1:2012-11	Household and similar electrical appliances - Safety - Part 2-27 : Particular requirements for appliances for skin exposure to ultraviolet and infrared radiation	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-28 ed4.1 Consol. with am1:2008-07)	Household and similar electrical appliances - Safety - Part 2-28 : Particular requirements for sewing machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-29 ed4.2 consol. With am1&2:2010-03)	Household and similar electrical appliances - Safety - Part 2-29 : Particular requirements for battery chargers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-29:2019	Household and similar electrical appliances - Safety - Part 2-29 : Particular requirements for battery chargers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-2:2019	Household and similar electrical appliances - Safety - Part 2-2 : Particular requirements for vacuum cleaners and water-suction cleaning appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-3 ed6.0:2012-03	Household and similar electrical appliances - Safety - Part 2-3 : Particular requirements for electric irons	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-3 ed6.1 (2015-07)	Household and similar electrical appliances - Safety - Part 2-3 : Particular requirements for electric iron	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-30 ed5.0:2009-11	Household and similar electrical appliances - Safety - Part 2-30 : Particular requirements for room heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-30:2016	Household and similar electrical appliances - Safety - Part 2-30 : Particular requirements for room heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-31 ed5.0:2012-11	Household and similar electrical appliances - Safety - Part 2-31 : Particular requirements for range hoods and other cooking fume extractors	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-31:2018	Household and similar electrical appliances - Safety - Part 2-31 : Particular requirements for range hoods and other cooking fume extractors	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-32 ed4.2:2013	Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliance	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-32:2019	Household and similar electrical appliances - Safety - Part 2-32 : Particular requirements for massage appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-34 ed5.0:2012-05	Household and similar electrical appliances - Safety -Part 2-34 : Particular requirements for motor-compressors	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-34:2016	Household and simila relectrical appliances - Safety - Part 2-34 : Particular requirements for motor-compressors	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-35 ed5.0:2012	Household and similar electrical appliances - Safety - Part 2-35 : Particular requirements for instantaneous water heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-35:2016	Household and similar electrical appliances - Safety - Part 2-35 : Particular requirements for instantaneous water heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-36 ed5.2 Consol. am1&2:2008-06	Household and similar electrical appliances - Safety - Part 2-36 : Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-36:2017	Household and similar electrical appliances - Safety - Part 2-36 : Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-37 ed5.2 Consol. am1&2:2011-11	Household and similar electrical appliances - Safety - Part 2-37 : Particular requirements for commercial electric deep fat fryers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-38 ed5.1 Consol. am1&2:2008-06	Household and similar electrical appliances - Safety - Part 2-38 : Particular requirements for commercial electric griddles and griddle grills	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-39 ed6.0:2012-04	Household and similar electrical appliances - Safety - Part 2-39 : Particular requirements for commercial electric multi-purpose cooking pans	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-4 ed6.1 Consol. with am1:2012-11	Household and similar electrical appliances - Safety - Part 2-4 : Particular requirements for spin extractors	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-4 ed6.2:2017	Household and similar electrical appliances - Safety - Part 2-4 : Particular requirements for spin extractors	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-40:2018	Household and similar electrical appliances - Safety - Part 2-40 : Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-41 ed4.0 (2012-12)	Household and similar electrical appliances - Safety - Part 2-41 : Particular requirements for pumps	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-41 ed4.0:2012	Household and similar electrical appliances - Safety - Part 2-41: Particular requirements for pimp	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-42 ed5.1 Consol. With am1:2009-08	Household and similar electrical appliances - Safety - Part 2-42 : Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-43 ed3.2 Consol. With am1&2:2008-09	Household and similar electrical appliances - Safety - Part 2-43 : Particular requirements for clothes dryers and towel rails	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-44 ed3.2 Consol. With am1&2:2012-01	Household and similar electrical appliances - Safety - Part 2-44 : Particular requirements for ironers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-45 ed3.2 Consol. With am1&2:2012-01	Household and similar electrical appliances - Safety - Part 2-45 : Particular requirements for portable Heating tools and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-47 ed4.1 Consol. With am1:2008-07	Household and similar electrical appliances - Safety - Part 2-47 : Particular requirements for commercial electric boiling pans	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-48 ed4.1 Consol. With am1:2008-06	Household and similar electrical appliances - Safety - Part 2-48 : Particular requirements for commercial electric grillers and toasters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-49 ed4.1 Consol. with am1:2008-06	Household and similar electrical appliances - Safety - Part 2-49 : Particular requirements for commercial electric appliances for keeping food and crockery warm	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-49:2017	Household and similar electrical appliances - Safety - Part 2-49 : Particular requirements for commercial electric appliances for keeping food and crockery warm	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-5 ed6.0:2012-11	Household and similar electrical appliances - Safety - Part 2-5 : Particular requirements for dishwashers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-50 ed4.1 Consol. With am1:2008-03	Household and similar electrical appliances - Safety - Part 2-50 : Particular requirements for commercial electric bains-marie	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-52 ed3.1 Consol. With am1:2008-07	Household and similar electrical appliances - Safety - Part 2-52 : Particular requirements for oral hygiene appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-53 ed4.0:2011	Household and similar electrical appliances - Safety - Part 2-53: Particular requirements for sauna Heating appliance	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-53:2017	Household and similar electrical appliances - Safety - Part 2-53 : Particular requirements for sauna heating appliances and infrared cabins	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-54 ed4.0:2008-09	Household and similar electrical appliances - Safety - Part 2-54 : Particular requirements for surface-cleaning appliances for household use employing liquids or steam	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-55 ed3.1 Consol. with am1 (2008-07)	Household and similar electrical appliances - Safety - Part 2-55 : Particular requirements for electrical appliances for use With aquariums and garden ponds	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-55 ed3.1 Consol. with am1:2008-07	Household and similar electrical appliances - Safety - Part 2-55 : Particular requirements for electrical appliances for use with aquariums and garden ponds	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-56 ed3.2 Consol. With am1&2:2014-08	Household and similar electrical appliances - Safety - Part 2-56 : Particular requirements for projectors and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-59 ed3.2 Consol. with am1&2 (2009-11)	Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-59 ed3.2 Consol. with am1&2:2009-11	Household and similar electrical appliances - Safety - Part 2-59 : Particular requirements for insect killers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-5:2018	Household and similar electrical appliances - Safety - Part 2-5 : Particular requirements for dish washer	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-6 ed6.0:2014-02	Household and similar electrical appliances - Safety - Part 2-6 : Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-61 ed2.2 Consol. With am1&2:2009-04	Household and similar electrical appliances - Safety - Part 2-61 : Particular requirements for thermal storage room heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-62 ed3.1 Consol. With am1:2008-06	Household and similar electrical appliances - Safety - Part 2-62 : Particular requirements for commercial electric rinsing sinks	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-64 ed3.1 Consol. with am1:2008-03	Household and similar electrical appliances - Safety - Part 2-64 : Particular requirements for commercial electric kitchen machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-64:2017	household and similar electrical appliances - Safety - Part 2-64 : Particular requirements for commercial electric kitchen machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-65 ed2.2 Consol. with am1&2:2015-01	Household and similar electrical appliances - Safety - Part 2-65 : Particular requirements for air-cleaning appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-65:2015	Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-67 ed4.0:2012-03	Household and similar electrical appliances - Safety - Part 2-67 : Particular requirements for floor treatment and floor cleaning machines, for industrial and commercial use	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-68 ed4.0:2012-03	Household and similar electrical appliances - Safety - Part 2-68 : Particular requirements for spray extraction appliances, for industrial and commercial use	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-69 ed4.0:2012-02	Household and similar electrical appliances - Safety - Part 2-69 : Particular requirements for wet and dry vacuum cleaners, including power brush, for industrial and commercial use	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-6:2018	Household and similar electrical appliances - Safety - Part 2-6 : Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-7 ed7.1 Consol. with am1:2012-03	Household and similar electrical appliances - Safety - Part 2-7 : Particular requirements for washing machine	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-70 ed2.2 Consol. with am1&2:2013-03	Household and similar electrical appliances - Safety - Part 2-70 : Particular requirements for milking machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-71 ed2.2 Consol. with am1&2:2012-10	Household and similar electrical appliances - Safety - Part 2-71 : Particular requirements for electrical Heating appliances for breeding and rearing animals	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-72 ed3.0:2012-03	Household and similar electrical appliances - Safety - Part 2-72 : Particular requirements for automatic machines for floor treatment for commercial use	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-74 ed2.2 Consol. With am1&2:2009-11	Household and similar electrical appliances - Safety - Part 2-74 : Particular requirements for portable immersion heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-75 ed3.1:2015	Household and similar electrical appliances - Safety - Part 2-75 : Particular requirements for commercial dispensing appliances and vending machine	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-75 ed3.2:2018	Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-79 ed3.0:2012-02	Household and similar electrical appliances - Safety - Part 2-79 : Particular requirements for high pressure cleaners and steam cleaners	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-7:2019	Household and similar electrical appliances - Safety - Part 2-7 : Particular requirements for washing machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-8 ed6.0:2012-12	Household and similar electrical appliances - Safety - Part 2-8 : Particular requirements for shavers, hair clippers and similar appliance	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-80 ed3.0:2015-01	Household and similar electrical appliances - Safety - Part 2-80 : Particular requirements for fans	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-80:2015	Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-84 ed2.2 Consol. with am1&2:2013-12	Household and similar electrical appliances - Safety - Part 2-84 : Particular requirements for toilets	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-84:2019	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-85 ed2.1 Consol. with am1:2008-07	Household and similar electrical appliances - Safety - Part 2-85 : Particular requirements for fabric steamers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-89 ed2.2:2015	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 Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-89:2019	Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances and ice-makers with an incorporated or remote refrigerant unit or motor-compressor	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-8:2018	Household and similar electrical appliances - Safety - Part 2-8 : Particular requirements for shavers, hair clippers and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-9 ed6.1 Consol. with am1:2012-11	Household and similar electrical appliances - Safety - Part 2-9 : Particular requirements for grills, toasters and similar portable cooking appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-9 ed7.0:2019	Household and similar electrical appliances - Safety - Part 2-9 : Particular requirements for grills toasters and similar portable cooking appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-90 ed4.0:2015	Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
IEC 60335-2-90:2019	Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60335-2-98 ed2.2 Consol. with am1&2:2008-09	Household and similar electrical appliances - Safety - Part 2-98 : Particular requirements for humidifiers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60335-2-98:2008	Household and similar electrical appliances - safety - Part 2-98: Particular requirements for humidifiers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 60695-10-2:2014	Fire hazard testing - Part 10-2 : Abnormal heat - Ball pressure test method	AC 1 000 V or less	BS-1	N
IEC 60695-2-11:2014	Fire hazard testing - Part 2-11 : Glowing/hot-wire based test method - Glow-wire flammability test method for end-products	Test temperature : 960 ℃ or less	BS-1	N
IEC 60695-2-12:2014	Fire hazard testing - Part 2-12 : Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	Test temperature : 960 ℃ or less	BS-1	N
IEC 60695-2-13:2014	Fire hazard testing - Part 2-13 : Glowing/hot-wire based test methods - Glow-wire ignition Temperature (GWIT) test method for materials	Test temperature : 960 ℃ or less	BS-1	N
IEC 60950-1 ed2.2 Consol. with am1&2:2013-05	Information technology equipment - safety - Part 1 : General requirements 〈Exception〉 4.2.8 Cathode ray tubes 4.3.13.3 Effect of ultraviolet (UV) radiation on material 4.3.13.4 Human exposure to ultraviolet (UV) radiation 4.3.13.5.1 Laser (including laser diodes) 4.3.13.5.2 Light emitting diodes (LEDs)	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60950-1:2013	Information technology equipment - safety - Part 1: General requirements	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 61851-1:2010	Electric vehicle conductive charging system - Part 1 : General requirements	Input : below 600 V	BS-1	Y
IEC 61851-22:2001	Electric vehicle conductive charging system - Part 22 : AC electric vehicle charging system	Input : below 600 V	BS-1	Y
IEC 61851-23:2014	Electric vehicle conductive charging system - Part 23: DC electric vehicle charging station	Input : below 600 V	BS-1	Y
IEC 61851-24:2014	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	Y
IEC 62040-1:2013 Ed.1.1	Uninterruptible power systems (UPS) - Part 1: General and safety requirements for UPS	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
IEC 62196-1:2014	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1 : General requirements	AC 690 V, 250 A DC 1 500V, 400 A	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 62196-2:2016	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 three phase 63 A or less single phase 70 A or less	BS-1	Y
IEC 62368-1 ed 1.0 (2010)	Audio/video information and communication technology equipment - Part 1: Safety requirements	AC/DC 600 V or less	BS-1	N
IEC 62368-1 ed 2.0 (2014)	Audio/video information and communication technology equipment - Part 1: Safety requirements	AC/DC 600 V or less	BS-1	N
IEC 62477-1:2012	Safety requirements for power electronic converter systems and equipment - Part 1: General	Input : below 600 V	BS-1	Y
ISO/IEC 15118-2:2014	Road vehicles — Vehicle - to - Grid Communication Interface - Part 2: Network and application protocol requirements	L3 ~ L7 Of OSI7-Layer	BS-1	N
K 10002:2006	Particular requirements for half baths and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10002:2006	Particular requirements for half baths and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
K 10003:2006	Particular requirements for foot baths and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10003:2006	Particular requirements for foot baths and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 10004:2008	Safety of household and similar electrical appliances - Particular requirements for electrical beds and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10004:2008	Safety of household and similar electrical appliances - Particular requirements for electrical beds and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 10007:2008	Safety of household and similar electrical appliances - Particular requirements for water purifier	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10007:2008	Safety of household and similar electrical appliances - Particular requirements for water purifier	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
K 10008:2011	Safety of household and similar electrical appliances - Particular requirements for water ionizer	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10008:2011	Safety of household and similar electrical appliances - Particular requirements for water ionizer	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 10009:2008	Safety of household and similar electrical appliances - Particular requirements for supersonic washers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10009:2008	Safety of household and similar electrical appliance - Particular requirements for suspensonic washers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 10010:2008	Safety of household and similar electrical appliances - Particular requirements for sprout and bean sprout growing devices	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10010:2008	Safety of household and similar electrical appliances - Particular requirements for sprout and bean sprout growing devices	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
K 10011:2011	Safety of household and similar electrical appliances - Particular requirements for electrical door look	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10011:2011	Safety of household and similar electrical appliances - Particular requirements for electrical door lock	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 10012:2013	Safety of household and similar electrical appliances - Particular requirements for health appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10012:2013	Safety of household and similar electrical appliances - Particular requirements for health appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 10013:2008	Safety of household and similar electrical appliances - Particular requirements for anti-freezing appliances of a waterworks	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10013:2008	Safety of household and similar electrical appliances - Particular requirements for anti-freezing appliances of waterworks	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
K 10015:2008	Safety of household and similar electrical appliances - Particular requirements for water towel rolling machine and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10015:2008	Safety of household and similar electrical appliances - Particular requirements for water towel rolling machine and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 10016:2008	Safety of household and similar electrical appliances - Particular requirements for water towel packing machine and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10016:2008	Safety of household and similar electrical appliances - Particular requirements for water towel packing machine and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 10017:2008	Safety of household and similar electrical appliances - Particular requirements for pet washing machine and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10017:2008	Safety of household and similar electrical appliances - Particular requirements for pet washing machine and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
K 10018:2009	Safety of household and similar electrical appliances - Particular requirements for sprout and bean sprout growing devices	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10019:2009	Safety of household and similar electrical appliances - Particular requirements for the electrical boiler of electrical warm-water mattress and bed	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 10019:2009	Safety of household and similar electrical appliances - Particular requirements for electrical door look	Input : (3 ~ 250) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 10020:2010	Safety of household and similar electrical appliances - Particular requirements for non-flexible pads	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 10020:2010	Safety of household and similar electrical appliances - Particular requirements for health appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 60335-2-81:2009	Safety of household and similar electrical appliances Part 2-81 : Particular requirements for foot warmers and Heating mats	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
K 60335-2-81:2009	Safety of household and similar electrical appliances - Particular requirements for water towel rolling machine and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 60335-2-85:2007	Household and similar electrical appliances - Safety - Part 2-85 : Particular requirements for fabric steamers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 60335-2-85:2007	Safety of household and similar electrical appliances - Particular requirements for water towel packing machine and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 60335-2-9:2013	Household and similar electrical appliances - Safety - Part 2-9 : Particular requirements for grills, toasters and similar portable cooking appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 60335-2-9:2013	Safety of household and similar electrical appliances - Particular requirements for anti-freezing appliances of a waterworks	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
K 60950-1:2011	Information technology equipment - safety - Part 1 : General requirements <Exception> 4.2.8 Cathode ray tubes 4.3.13.3 Effect of ultraviolet (UV) radiation on material 4.3.13.4 Human exposure to ultraviolet (UV) radiation 4.3.13.5 Laser	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
K 60950-1:2011	Safety of household and similar electrical appliances - Particular requirements for pet washing machine and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 62040-1:2011	Uninterruptible power systems (UPS) - Part 1 : General and safety requirements for UPS	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 62477-1:2011	Safety requirements for power electronic converter systems and equipment - Part 1 : General	500 V or less (AC and DC input)	BS-1	Y
K 70000:2008	Safety of household and similar electrical appliances - Particular requirements for electrical sterilizer and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
K 70000:2008	Safety of household and similar electrical appliances - Particular requirements for electrical sterilizer and similar equipment	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KC 10018:2015	Household and similar electrical appliances - Safety -Particular requirements for electrical warm-water mattresses and beds	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 10018:2015	Safety of household and similar electrical appliances - Particular requirements for electrical warm-water mattress and bed	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 10027:2015	Household and similar electrical appliances - Safety -Particular requirements for Heating boards	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 10029:2020	Safety of household and similar electrical appliances- Particular requirements for electrical mosquito swatter	Input : Battery 450 Vdc or less, 50 A	BS-1	N
KC 10029:2020	Safety of household and similar electrical appliances- Particular requirements for electrical mosquito swatter	Input : 450 V or less, 50 A	BS	N
KC 60065:2015	Audio, Video and similar electronic apparatus-Safety requirements	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60065:2015	Audio, Video and similar electronic apparatus - Safety requirements <Exception> 6.2 Laser radiation 7.2 Heat resistance of insulating material 18 Mechanical strength of picture tubes and protection against the effects of implosion	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60112:2015	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	AC 600 V or less	BS-1	N
KC 60335-1:2016	Safety of household and similar electrical appliances - Part 1 : General requirements	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	Y
KC 60335-1:2016	Household and similar electrical appliances - Safety - Part 1 : General requirements <Exception> 15.1.1 IPX5, IPX6 19.11.4.1, 19.11.4.2, 19.11.4.3, 19.11.4.4, 19.11.4.5, 19.11.4.6, 19.11.4.7	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-101:2015	Household and similar electrical appliances - Safety - Part 2-101 : Particular requirements for vaporizers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-101:2015	Household and similar electrical appliances - Safety - Part 2-101 : Particular requirements for vaporizers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-102:2015	Household and similar electrical appliances - Safety - Part 2-102 : Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-10:2015	Household and similar electrical appliances - Safety - Part 2-10 : Particular requirements for floor treatment machines and wet scrubbing machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-10:2015	Household and similar electrical appliances - Safety - Part 2-10 : Particular requirements for floor treatment machines and wet scrubbing machine	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-11:2021	Household and similar electrical appliances - Safety - Part 2-11 : Particular requirements for tumble dryers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-11:2021	Household and similar electrical appliances - Safety - Part 2-11 : Particular requirements for tumble dryers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-12:2015	Safety of household and similar electrical appliances - Part 2-12 : Particular requirements for warming plates and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-12:2015	Household and similar electrical appliances - Safety - Part 2-12 : Particular requirements for warming plates and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-13:2016	Household and similar electrical appliances - Safety - Part 2-13 : Particular requirements for deep fat fryers, frying pans and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-13:2016	Household and similar electrical appliances - Safety - Part 2-13 : Particular requirements for electric fryers, electric frying pans and similar appliance	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-14:2016	Household and similar electrical appliances - Safety - Part 2-14 : Particular requirements for kitchen machine	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-14:2016	Household and similar electrical appliances - Safety - Part 2-14 : Particular requirements for kitchen machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-15:2020	Household and similar electrical appliances - Safety - Part 2-15 : Particular requirements for appliances for Heating liquid	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-15:2020	Household and similar electrical appliances - Safety - Part 2-15 : Particular requirements for appliances for Heating liquids	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-16:2015	Household and similar electrical appliances - Safety - Part 2-16 : Particular requirements for food waste disposers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-16:2015	Safety of household and similar electrical appliances Part 2-16 : Particular requirements for food waste disposers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-17:2015	Household and similar electrical appliances - Safety - Part 2-17 : Particular requirements for blankets, pads and similar flexible Heating appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-21:2015	Household and similar electrical appliances - Safety - Part 2-21 : Particular requirements for storage water heater	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-21:2015	Safety of household and similar electrical appliances Part 2-21 : Particular requirements for storage water heater	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-23:2015	Household and similar electrical appliances - Safety - Part 2-23 : Particular requirements for appliances for skin or hair care	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-23:2015	Household and similar electrical appliances - Safety - Part 2-23 : Particular requirements for appliances for skin or hair care	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-24:2015	Household and similar electrical appliances - Safety - Part 2-24 : Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-24:2015	Household and similar electrical appliances - Safety - Part 2-24 : Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-25:2015	Household and similar electrical appliances - Safety - Part 2-25 : Particular requirements for microwave ovens	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-25:2015	Household and similar electrical appliances - Safety - Part 2-25 : Particular requirements for microwave ovens	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-29:2020	Safety of household and similar electrical appliances - Part 2-29 : Particular requirements for battery chargers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-29:2020	Household and similar electrical appliances - Safety - Part 2-29 : Particular requirements for battery chargers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-2:2015	Household and similar electrical appliances - Safety - Part 2-2 : Particular requirements for vacuum cleaners and water-suction cleaning appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-2:2015	Household and similar electrical appliances Safety - Part 2-2 : Particular requirements for vacuum cleaners and water-suction cleaning appliances 〈Exception〉 21 Mechanical strength 21.101, 21.102, 21.103, 21.104, 21.105	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-30:2016	Household and similar electrical appliances - Safety - Part 2-30 : Particular requirements for room heater	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-30:2016	Household and similar electrical appliances - Safety - Part 2-30 : Particular requirements for room heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-31:2015	Household and similar electrical appliances - Safety - Part 2-31 : Particular requirements for range hood	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-31:2015	Household and similar electrical appliances - Safety - Part 2-31 : Particular requirements for range hoods and other cooking fume extractors	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-32:2015	Household and similar electrical appliances - Safety - Part 2-32 : Particular requirements for massage appliance	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-32:2015	Household and similar electrical appliances - Safety - Part 2-32 : Particular requirements for massage appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-34:2015	Safety of household and similar electrical appliances - Part 2-34 : Particular requirements for motor-compressors	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-34:2015	Household and similar electrical appliances - Safety -Part 2-34 : Particular requirements for motor-compressors	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-35:2015	Household and similar electrical appliances - Safety - Part 2-35 : Particular requirements for instantaneous water heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-35:2015	Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-36:2015	Household and similar electrical appliances -Safety - Part 2-36 : Particular requirements for commercial electric cooking ranges, Ovens, hobs and hob elements	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-36:2015	Household and similar electrical appliances - Safety - Part 2-36 : Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-37:2015	Household and similar electrical appliances - Safety - Part 2 - 37 : Particular requirements for commercial electric deep fat fryers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-37:2015	Household and similar electrical appliances - Safety - Part 2-37 : Particular requirements for commercial electric deep fat fryers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

No. KT009

Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-38:2015	Household and similar electrical appliances - Safety - Part 2 - 38 : Particular requirements for commercial electric griddles and griddle grills	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-38:2015	Household and similar electrical appliances - Safety - Part 2-38 : Particular requirements for commercial electric griddles and griddle grills	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-39:2015	Safety of household and similar electrical appliances - Part 2-39 : Particular requirements for commercial electric multi-purpose cooking pans	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-39:2015	Household and similar electrical appliances - Safety - Part 2-39 : Particular requirements for commercial electric multi-purpose cooking pans	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-3:2016	Household and similar electrical appliances - Safety - Part 2-3 : Particular requirements for electric iron	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-3:2016	Household and similar electrical appliances - Safety - Part 2-3 : Particular requirements for electric irons	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N

No. KT009

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

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

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-47:2015	Household and similar electrical appliances - Safety - Part 2-47 : Particular requirements for commercial electric boiling pans	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-48:2015	Household and similar electrical appliances - Safety - Part 2-48 : Particular requirements for commercial electric grillers and toasters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-48:2015	Household and similar electrical appliances - Safety - Part 2-48 : Particular requirements for commercial electric grillers and toasters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-49:2015	Household and similar electrical appliances - Safety - Part 2-49 : Particular requirements for commercial electric hot cupboards	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-49:2015	Household and similar electrical appliances - Safety - Part 2-49 : Particular requirements for commercial electric appliances for keeping food and crockery warm	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-4:2016	Household and similar electrical appliances - Safety - Part 2-4 : Particular requirements for spin extractor	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-4:2016	Household and similar electrical appliances - Safety - Part 2-4 : Particular requirements for spin extractors	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-50:2015	Safety of household and similar electrical appliances - Part 2-50 : Particular requirements for commercial electric bains-marie	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-50:2015	Household and similar electrical appliances - Safety - Part 2-50 : Particular requirements for commercial electric bains-marie	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-52:2015	Household and similar electrical appliances - Safety - Part 2-52 : Particular requirements for oral hygiene appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-52:2015	Household and similar electrical appliances - Safety - Part 2-52 : Particular requirements for oral hygiene appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-53:2015	Household and similar electrical appliances - Safety - Part 2-53 : Particular requirements for sauna Heating appliance	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-53:2015	Household and similar electrical appliances - Safety - Part 2-53 : Particular requirements for sauna Heating appliance	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-54:2015	Household and similar electrical appliances - Safety - Part 2-54 : Particular requirements for surface-cleaning appliances for household use employing liquids or steam	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-54:2015	Household and similar electrical appliances - Safety - Part 2-54 : Particular requirements for surface-cleaning appliances for household use employing liquids or steam	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-55:2015	Household and similar electrical appliances - Safety - Part 2-55 : Particular requirements for electrical appliances for use with aquariums and garden pond	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-55:2015	Household and similar electrical appliances - Safety - Part 2-55 : Particular requirements for electrical appliances for use with aquariums and garden ponds	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-56:2015	Household and similar electrical appliances - Safety - Part 2-56 : Particular requirements for projectors and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-56:2015	Household and similar electrical appliances - Safety - Part 2-56 : Particular requirements for projectors and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-58:2015	Household and similar electrical appliances - Safety - Part 2-58 : Particular requirements for commercial electric dishwashing machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-58:2015	Household and similar electrical appliances - Safety - Part 2-58 : Particular requirements for commercial electric dishwashing machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-59:2015	Household and similar electrical appliances - Safety - Part 2-59 :Particular requirements for insect killer	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-59:2015	Household and similar electrical appliances - Safety - Part 2-59 : Particular requirements for insect killers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-5:2016	Household and similar electrical appliances - Safety - Part 2-5 : Particular requirements for dishwasher	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-5:2016	Household and similar electrical appliances - Safety - Part 2-5 : Particular requirements for dishwashers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-60:2015	Safety of household and similar electrical appliances - Part 2-60 : Particular requirements for whirlpool baths and whirlpool spas	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-60:2015	Safety of household and similar electrical appliances Part 2-60 : Particular requirements for whirlpool baths and whirlpool spas	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-61:2015	Safety of household and similar electrical appliances - Part 2-61 : Particular requirements for thermal storage room heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-61:2015	Household and similar electrical appliances - Safety - Part 2-61 : Particular requirements for thermal storage room heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-62:2015	Safety of household and similar electrical appliances - Part 2-62 : Particular requirements for commercial electric rinsing sinks	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-65:2020	Household and similar electrical appliances - Safety - Part 2-65 : Particular requirements for air-cleaning appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-66:2015	Household and similar electrical appliances - Safety - Part 2-66 : Particular requirements for water-bed heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-66:2015	Household and similar electrical appliances - Safety - Part 2-66 : Particular requirements for water-bed heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-67:2015	Safety of household and similar electrical appliances - Part 2-67 : Particular requirements for floor treatment and floor cleaning machines, for industrial and commercial use	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-67:2015	Household and similar electrical appliances - Safety - Part 2-67 : Particular requirements for floor treatment and floor cleaning machines, for industrial and commercial use	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-68:2015	Safety of household and similar electrical appliances - Part 2-68 : Particular requirements for spray extraction appliances, for industrial and commercial use	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-68:2015	Household and similar electrical appliances - Safety - Part 2-68 : Particular requirements for spray extraction appliances, for industrial and commercial use	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-69:2015	Household and similar electrical appliances - Safety - Part 2 - 69 : Particular requirements for wet and dry vacuum cleaners, including power brush, for industrial and commercial use	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-69:2015	Household and similar electrical appliances - Safety - Part 2-69 : Particular requirements for wet and dry vacuum cleaners, including power brush, for industrial and commercial use	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-6:2016	Household and similar electrical appliances - Safety - Part 2-6 : Particular requirements for stationary cooking ranges, hobs, ovens and similar appliance	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-6:2016	Household and similar electrical appliances - Safety - Part 2-6 : Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-70:2015	Safety of household and similar electrical appliances - Part 2-70 : Particular requirements for milking machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-73:2015	Safety of household and similar electrical appliances - Safety - Part 2-73 : Particular requirements for fixed immersion heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-74:2015	Safety of household and similar electrical appliances - Part 2-74 : Particular requirements for portable immersion heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-74:2015	Household and similar electrical appliances - Safety - Part 2-74 : Particular requirements for portable immersion heaters	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-75:2015	Household and similar electrical appliances - Safety - Part 2-75 : Particular requirements for commercial dispensing appliances and vending machine	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-75:2015	Household and similar electrical appliances - Safety - Part 2-75 : Particular requirements for commercial dispensing appliances and vending machine	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-78:2015	Safety of household and similar electrical appliances - Part 2-78 : Particular requirements for outdoor barbecues	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-80:2020	Household and similar electrical appliances - Safety - Part 2-80 : Particular requirements for fans	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-82:2015	Household and similar electrical appliances - Safety - Part 2 - 82 : Particular requirements for amusement machines and personal service machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	Y
KC 60335-2-82:2015	Safety of household and similar electrical appliances - Safety - Part 2-82 : Particular requirements for amusement machines and personal service machines	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-84:2016	Household and similar electrical appliances - Safety - Part 2-84 : Particular requirements for toilet	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-84:2016	Household and similar electrical appliances - Safety - Part 2-84 : Particular requirements for toilets	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-88:2015	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 Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-88:2015	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 Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-89:2015	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 Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-89:2015	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 Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-8:2016	Household and similar electrical appliances - Safety - Part 2-8 : Particular requirements for shavers, hair clippers and similar appliance	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-8:2016	Household and similar electrical appliances - Safety - Part 2-8 : Particular requirements for shavers, hair clippers and similar appliance	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-90:2015	Household and similar electrical appliances - Safety - Part 2-90 : Particular requirements for commercial microwave ovens	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-90:2015	Household and similar electrical appliances - Safety - Part 2-90 : Particular requirements for commercial microwave ovens	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-91:2015	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 Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-91:2015	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 Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-95:2015	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 Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-95:2015	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 Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-97:2015	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 Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60335-2-97:2015	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 Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-98:2015	Household and similar electrical appliances - Safety - Part 2-98 : Particular requirements for humidifier	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 60335-2-98:2015	Household and similar electrical appliances - Safety - Part 2-98 : Particular requirements for humidifiers	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS	N
KC 60335-2-99:2015	Household and similar electrical appliances - Safety - Part 2-99 : Particular requirements for commercial electric hoods	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃, 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KC 61851-1:2020	Electric vehicle conductive charging system - Part 1 : General requirements	AC 600 V or less	BS-1	Y
KC 61851-22:2015	Electric vehicle conductive charging system - Part 22 : AC electric vehicle charging system	AC 600 V or less	BS-1	Y
KC 61851-23:2018	Electric vehicle conductive charging system - Part 23 : DC electric vehicle charging station	AC 600 V or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
KC 62196-1:2019	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1 : General requirements	AC 690 V / 250 A or less DC 600 V / 400 A or less	BS-1	Y
KC 62196-2:2020	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	BS-1	Y
KS C 9101:2014	Electric Vacuum Cleaners 〈Exceptions〉 Annex C Sand Removal Capacity Test and Carpet Handling Resistance Test	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃ 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KS C 9304:2002	Ventilation Fans	Input : (3 ~ 450) V, 50 A Temperature : 200 ℃ Humidity : 25 ℃ 95 % R.H. Electric strength : 5 kV Leakage current : 50 mA	BS-1	N
KS R IEC 62196-1:2015	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1 : General requirements	AC 690 V / 250 A or less DC 600 V / 400 A or less	BS-1	Y
KS R IEC 62196-2:2019	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 single phase : 70 A or less three phase : 63 A or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
NTE INEN-IEC 60268-5 Ed3.1:2007	Sound System equipment - Part 5: Loud speakers	Sensitivity : 50 mV/Pa Frequency : 6.3 Hz ~ 20 kHz	BS-1	N
Portaria INMETRO nº 427 (2014)	TECHNICAL REGULATION OF QUALITY FOR TELEVISION	Input : (3 ~ 450) V, 50 A	BS-1	N
Portaria INMETRO nº 577 (2015)	TECHNICAL REGULATION OF QUALITY FOR REFRIGERATORS AND ASSEMBLIES	Input : (3 ~ 450) V, 50 A	BS-1	N
RTE INEN 083:2013	TV Tunner ISDB-T International Digital Television Standard	RF : 100 kHz ~ 3 GHz RF power : (-120 ~ 10) dBm	BS-1	N
RTE INEN 114:2013	Speakers	Sensitivity : 50 mV/Pa Frequency : 6.3 Hz ~ 20 kHz	BS-1	N
RTE INEN 118:2013	Electric amplifiers	Output power : (0 ~ 5 000) W	BS-1	N
RTE INEN 139:2015	Electric heaters for domestic use	AC 1-phase or 3-phase Voltage: Max. 480 V Current: Max. 32 A/Phase Frequency: 50 Hz or/and 60 Hz	BS-1	N
RTE INEN 147:2014	Electric irons	AC 1-phase Voltage: Max. 300 V Current: Max. 32 A/Phase Frequency: 50 Hz or/and 60 Hz	BS-1	N
RTE INEN 179:2014	Skin or hair care devices	AC 1-phase Voltage: Max. 300 V Current: Max. 32 A/Phase DC Voltage: Max. 30 V Current: Max. 20 A Frequency: 50 Hz or/and 60 Hz	BS-1	N

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

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Test method	Standard designation	Test range	Site	Field testing
RTE INEN 277:2015	Electric Water Dispensers	AC 1-phase or 3-phase Voltage: Max. 480 V Current: Max. 32 A/Phase Frequency: 50 Hz or/and 60 Hz	BS-1	N
RTE INEN 283:2015	Refrigeration equipment for commercial use	AC 1-phase or 3-phase Voltage: Max. 480 V Current: Max. 32 A DC Voltage: Max. 30 V Current: Max. 20 A Frequency: 50 Hz or/and 60 Hz	BS-1	N

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03. Electrical Testing

03.008 Radio Communication Equipment

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

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

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Test method	Standard designation	Test range	Site	Field testing
3GPP TS 36.523-1	Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC);User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	(600 ~ 3 800) MHz	BS-2	N
3GPP TS 37.544	Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Over The Air (OTA) performance: Confermance testing	(700 ~ 6 000) MHz	BS-2	N
3GPP TS 38.124	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; ElectroMagnetic Compatibility (EMC) requirements for mobile terminals and ancillary equipment	9 kHz ~ 26 GHz	BS-2	N
3GPP TS 38.508-1	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; 5GS; User Equipment (UE) conformance specification; Part 1: Common test environment	FR1: (410 ~ 7 125) MHz, FR2: (24 250 ~ 43 500) MHz	BS-2	N
3GPP TS 38.521-1	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Range 1 Standalone;	FR1: (410 ~ 7 125) MHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
3GPP TS 38.521-2	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Range 2 Standalone	FR2: (24 250 ~ 43 500) MHz	BS-2	N
3GPP TS 38.521-3	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Range 1 and Range 2 Interworking operation with other radios	FR1: (410 ~ 7 125) MHz, FR2: (24 250 ~ 43 500) MHz	BS-2	N
3GPP TS 38.521-4	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) conformance specification; Radio transmission and reception; Part 4: Performance requirements	FR1: (410 ~ 7 125) MHz, FR2: (24 250 ~ 43 500) MHz	BS-2	N
3GPP TS 38.523-1	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; 5GS; User Equipment (UE) conformance specification; Part 1: Protocol	FR1: (410 ~ 7 125) MHz, FR2: (24 250 ~ 43 500) MHz	BS-2	N
3GPP TS 38.533	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) conformance specification; Radio Resource Management (RRM)	FR1: (410 ~ 7 125) MHz, FR2: (24 250 ~ 43 500) MHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
3GPP TS 51.010-1	Digital cellular telecommunications system (Phase 2+); Mobile Station(MS) conformance specification; Part 1: Conformance specification	9 kHz ~ 12.75 GHz	BS-2	N
3GPP TS 51.010-4	Core Network and Terminals; Mobile Station(MS) conformance specification; Part 4:Subscriber Identity Module(SIM) application toolkit Conformance test Specification	(800 ~ 2 200) MHz	BS-2	N
CTIA Battery Life Test Plan:2019	CTIA Battery Life Test Plan	Voltage : 1 V ~ 5 V Current : 1 A ~ 20 A	BS-2	N
CTIA Bluetooth® Compatibility Test Plan:2014	CTIA Bluetooth® Compatibility Test Plan	(2 400 ~ 2 500) MHz	BS-2	N
CTIA OTA Test Plan:2019	Test Plan for Wireless Device Over-the-Air Performance	700 MHz ~ 6 GHz	BS-2	N
CWG RF Test Plan:2019	Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices	(700 ~ 6 000) MHz	BS-2	N
Draft ETSI EN 303 345-3:2019	Broadcast Sound Receivers; Part 3: FM broadcast sound service; Harmonised Standard for access to radio spectrum	Frequency Range : Max 6 GHz	BS-2	N
EN 100 910:2005	Digital Cellular Telecommunications system (Phase 2+); Radio Transmission and Reception;	(600 ~ 3 800) MHz	BS-2	N
EN 300 220 v2.4.1:2012	Radio equipment to be used in the 25 MHz to 1000 MHz Frequency range With power levels ranging up to 500 mW	(25 ~ 1 000) MHz	BS-2	N
EN 300 328:2015	Data transmission equipment operating in the 2.4 GHz ISM band modulation techniques	(2 400 ~ 2 500) MHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
EN 300 328:2019	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	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
EN 300 330:2017	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 300 440-2:2010	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	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	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	Standard designation	Test range	Site	Field testing
EN 301 390 v1.3.1 :2013	Fixed Radio Systems ; Point-to-point and Multi point Systems; Unwanted emissions in the spurious domain and receiver immunity limit sat equipment/antenna port of Digital Fixed Radio Systems	9 kHz ~ 26.5 GHz	BS-2	N
EN 301 406:2009	Digital Enhanced Cordless Telecommunications (DECT)	(1 880 ~ 1 900) MHz	BS-2	N
EN 301 511:2015	Global System for Mobile communications (GSM); Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under article 3.2 of the R&TTE directive (1999/5/EC)	9 kHz ~ 18 GHz	BS-2	N
EN 301 511:2017	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	9 kHz ~ 18 GHz	BS-2	N
EN 301 893:2015	Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive	9 kHz ~ 26.5 GHz	BS-2	N
EN 301 893:2017	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	9 kHz ~ 26.5 GHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
EN 301 908-13:2016	IMT cellular Networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	9 kHz ~ 19 GHz	BS-2	N
EN 301 908-13:2017	IMT cellular Networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; - Part 13 : Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	9 kHz ~ 18 GHz	BS-2	N
EN 301 908-13:2019	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 301 908-1:2015	IMT cellular Networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part1 : Introduction and common requirements	9 kHz ~ 18 GHz	BS-2	N
EN 301 908-1:2016	IMT cellular Networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements	30 MHz ~ 18 GHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
EN 301 908-2:2016	IMT cellular Networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)	9 kHz ~ 12.75 GHz	BS-2	N
EN 301 908-2:2017	IMT cellular Networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; - Part 2 : CDMA Direct Spread (UTRA FDD)User Equipment (UE)	9 kHz ~ 18 GHz	BS-2	N
EN 301 908-2:2020	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	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	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

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Test method	Standard designation	Test range	Site	Field testing
EN 302 326-3 v1.3.1:2008	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
EN 303 348:2016	Induction loop systems intended to assist the hearing impaired in the Frequency range 10 Hz to 9 kHz; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	10 Hz ~ 18 GHz	BS-2	N
EN 50360:2001	Product standard to demonstrate the compliance of mobile phones With the basic restrictions related to human exposure to electromagnetic fields (300 MHz ~ 3GHz)	(300 ~ 2 500) MHz	BS-2	N
EN 50360:2017	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear	300 MHz ~ 6 GHz	BS-2	N
EN 50383:2002	Basic standard for the calculation and measurement of electromagnetic field strength and SAR related to human exposure from radio base stations and fixed terminal stations for Wireless telecommunication systems (110 MHz - 40 GHz)	MPE : 110 MHz ~ 40 GHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
EN 50385:2017	Product standard to demonstrate the compliance of base station equipment with radio frequency electromagnetic field exposure limits (110 MHz - 100 GHz), when placed on the market	MPE : 110 MHz ~ 40 GHz	BS-2	N
EN 50566:2017	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body	400 MHz ~ 6 GHz	BS-2	N
EN 62209-1:2016	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)	400 MHz ~ 6 GHz	BS-2	N
EN 62209-2:2010	Human exposure to radio frequency fields from hand-held and body mounted Wire less communication devices. Human models instrumentation and procedures Procedure to determine the specific absorption rate (SAR) for Wire less communication devices used in close proximity to the human body (Frequency range of 30 MHz to 6 GHz)	400 MHz ~ 6 GHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
EN 62311:2008	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	10 MHz ~ 6 GHz	BS-2	N
EN 62479:2010	Assessment of the compliance of Low power electronic and electrical equipment With the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	SAR : 400 MHz ~ 6 GHz MPE : 10 MHz ~ 300 GHz	BS-2	N
EPC global:2006	Dynamic Test - Door Portal Test Methodology for Applied Tag Performance Dynamic Testing Rev 1.0.9 - Convey or Portal Test Methodology for Applied Tag Performance Dynamic Testing Rev 1.1.4	(860 ~ 960) MHz	BS-2	N
EPC global:2008	Tag Performance Parameters and Test Methods Version 1.1.3	(860 ~ 960) MHz	BS-2	N
EPC global:2015	EPC Compliant Class-1 Generation-2 UHF RFID Devices Conformance Requirements, Release 2.0.1	(860 ~ 960) MHz	BS-2	N
ETSI EN 301 908-15:2017	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	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

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Test method	Standard designation	Test range	Site	Field testing
ETSI EN 301 908-1:2019	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part1:Introduction and common requirements	30 MHz ~ 12.75 GHz	BS-2	N
ETSI EN 303 345-1:2019	Broadcast Sound Receivers; Part 1: Generic requirements and measuring methods	Frequency Range : Max 6 GHz	BS-2	N
ETSI EN 303 345:2017	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 303 413:2017	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 covering the essential requirements of article 3.2 of Directive 2014/53/EU	30 MHz ~ 8.3 GHz	BS-2	N
ETSI TS 102 230-1:2016	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	Smart cards; UICC-Terminal interface; Physical electrical and logical test specification	(600 ~ 3 800) MHz	BS-2	N
ETSI TS 102 384:2015	Smart cards; UICC-Terminal interface; Card Application Toolkit(CAT) conformance specification	(600 ~ 3 800) MHz	BS-2	N
FCC Part 15:2014	Radio Frequency Devices <Exception> Subpart B	9 kHz ~ 40 GHz	BS-2	N
FCC Part 2.1091:2014	Radio frequency radiation exposure evaluation :mobile device	10 MHz ~ 6 GHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
FCC Part 2.1093:2010	Radio frequency radiation exposure evaluation: portable device	(300 ~ 2 500) MHz	BS-2	N
FCC Part 2.1093:2014	Radio frequency radiation exposure evaluation : portable device	300 MHz ~ 6 GHz	BS-2	N
FCC Part 22:2014	Public Mobile Services - Subpart H. Cellular Radiotelephone Service	(800 ~ 900) MHz	BS-2	N
FCC Part 24:2014	Personal Communications Services - Subpart E. Broadband PCS	(1 800 ~ 2 000) MHz	BS-2	N
FCC Part 27 Sub part C:2013	Miscellaneous Wireless communications services	9 kHz ~ 26.5 GHz	BS-2	N
FCC Part 90:2014	Private Land Mobile Radio Services	(70 ~ 5 000) MHz	BS-2	N
FCC Part 95:2014	Personal Radio Services	(200 ~ 1 500) MHz	BS-2	N
GSM Association Official Document TS.11:2016	Device Field and Lab Test Guideline	(600 ~ 3 800) MHz	BS-2	Y
IEEE Std 1528:2003	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communication Devices :Measurement Techniques	(800 ~ 2 500) MHz	BS-2	N
IEEE Std 1528:2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices : Measurement Techniques	400 MHz ~ 6 GHz	BS-2	N
ISO/IEC TR 18046-3:2012	Information technology - Radio frequency identification device performance test methods - Part 3: Test methods for tag performance	(860 ~ 960) MHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
ISO/IEC TR 18047-6:2012	Information technology - Radio frequency identification device conformance test methods - Part 6: Test methods for air interface communications at 860 MHz to 960 MHz	(860 ~ 960) MHz	BS-2	N
ISO/IEC TR 18047-7:2010	Information technology - Radio frequency identification device conformance test methods - Part 7: Test methods for active air interface communications at 433 MHz	433.92 MHz Frequency deviation : ±50 kHz	BS-2	N
KS X ISO/IEC 18046-3:2008	Information technology - Automatic identification and data capture techniques - Radio frequency identification device performance test methods	(860 ~ 960) MHz	BS-2	N
KS X ISO/IEC 18047-6:2006	Information technology - Radio frequency identification device conformance test methods - Part 6 : Test methods for air interface communications at 860 MHz to 960 MHz	(860 ~ 960) MHz	BS-2	N
KS X ISO/IEC 18047-7:2006	Information technology - Radio frequency identification device conformance test methods - Part 7 : Test methods for active air interface communications at 433 MHz	433.92 MHz Frequency deviation : ±50 kHz	BS-2	N
OMA-ETS-MMS:2015	Enabler Test Specification for (Conformance) for MMS	(600 ~ 3 800) MHz	BS-2	N
OMA-ETS-MMS_INT:2010	Enabler Test Specification (Interoperability) for MMS	(600 ~ 3 800) MHz	BS-2	N
PTCRB AT-Command Test Specification:2012	AT-Command Test Specification Covering PTCRB RFT 77	9 kHz ~ 12.75 GHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
RF-PHY.TS.4.2.0:2014	RF-PHY Bluetooth® Test Specification	(2 400 ~ 2 500) MHz	BS-2	N
RF.TS.4.2.0:2014	Radio Frequency (RF) Bluetooth® Test Specification	(2 400 ~ 2 500) MHz	BS-2	N
RSS-102:2015	Licence-Exempt Low-power Radio Apparatus Operating in the Television Bands (February 2015)	(300 ~ 2 500) MHz	BS-2	N
RSS-119:2011	Land Mobile and Fixed Radio Transmitters and Receivers operating in the frequency 27.41 MHz ~ 960 MHz	(27.41 ~ 960) MHz	BS-2	N
RSS-132:2013	Cellular Telephones Employing New Technologies Operating in the Bands 824 ~ 849 MHz and 864 ~ 894 MHz	(800 ~ 900) MHz	BS-2	N
RSS-133 Issue6:2013	2GHz Personal Communications Services	9 kHz ~ 26.5 GHz	BS-2	N
RSS-139 Issue2:2009	Advanced Wireless Services Equipment Operating in the Bands 1710-1755 MHz and 2110-2155 MHz	9 kHz ~ 26.5 GHz	BS-2	N
RSS-199 Issue1:2010	Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz <Exception> Base station	9 kHz ~ 26.5 GHz	BS-2	N
RSS-210 Amendment 1:2015	Licence-Exempt Low-power Radio Apparatus Operating in the Television Bands (February 2015)	9 kHz ~ 18 GHz	BS-2	N
RSS-213:2005	2 GHz License-exempt Personal Communications Service Devices(PCS)	(1 900 ~ 2 000) MHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
RSS-247 Issue1:2015	Digital Transmission Systems (DTSs) Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices	9 kHz ~ 18 GHz	BS-2	N
RSS-310:2011	Low-power Licence-exempt Radio communication Devices (All Frequency Bands): Category Ⅱ Equipment	9 kHz ~ 18 GHz	BS-2	N
MSIT Notice No.2018-3(23.01.2018.)	Unlicensed Radio Equipments	9 kHz ~ 24 GHz	BS-2	N
MSIT Notice No.2018-4(23.01.2018.)	Technical reference on Unlicensed Communication Systems devices	9 kHz ~ 26.5 GHz	BS-2	N
MIST ordinance No.1(26.07.2017.)	Rules on Radio Equipment	9 kHz ~ 26.5 GHz	BS-2	N
RRA Notice No.2016-21(30.09.2016.)	General radio station. space station. earth station equipment and radio detection equipment and other equipment's technical standards	100 kHz ~ 20 GHz	BS-2	N
RRA Notice No.2017-03(31.03.2017.)	Technical Requirements for Business Telecommunications Equipment	9 kHz ~ 24 GHz	BS-2	N
RRA Notice No.2017-08(28.08.2017.)	Technical Requirementsfor Human Protection against Electromagnetic Waves	300 MHz ~ 6 GHz	BS-2	N
MSIT Notice No.2013-113(29.08.2013.)	Restricted Frequency Bands of operation which do not interface with other communications due to PLC	(9 ~ 450) kHz	BS-2	N
MSIT Notice No.2013-114(29.08.2013.)	PLC Equipments which must be licensed in case of frequency band below 450 kHz	(9 ~ 450) kHz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
MSIT Notice No.2015-18(25.03.2015.)	Requirements for Human Protection against Electromagnetic Waves	300 MHz ~ 6 GHz	BS-2	N
MSIT Notice No.2016-52(20.05.2016.)	Rules on Radio Equipment	9 kHz ~ 24 GHz	BS-2	N

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03. Electrical Testing

03.009 Lighting Apparatus

Test method	Standard designation	Test range	Site	Field testing
IEC 60064:1993/AMD5:2009	Amendment 5 - Tungsten filament lamps for domestic and similar general lighting purposes - Performance requirements	AC 1 000 V or less	BS-1	N
IEC 60081:1997/AMD6:2017	Amendment 6 - Double-Capped Fluorescent Lamps - Performance Specifications	AC 1 000 V or less	BS-1	N
IEC 60112:2003+AMD1:2009	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	AC 1 000 V or less	BS-1	N
IEC 60155:1993+AMD2:2006	Amendment 2 - Glow-starters for fluorescent lamps	AC 1 000 V or less	BS-1	N
IEC 60188:2001	High-Pressure Mercury Vapour Lamps - Performance Specifications	AC 1 000 V or less	BS-1	N
IEC 60192:2001	Low-Pressure Sodium Vapour Lamps - Performance Specifications	AC 1 000 V or less	BS-1	N
IEC 60238:2016/AMD2:2020	Edison Screw Lamp holders	AC 1 000 V or less	BS-1	N
IEC 60357:2002/AMD3:2011	Amendment 3 - Tungsten Halogen Lamps(non-vehicle) - Performance Specifications	AC 1 000 V or less	BS-1	N
IEC 60400:2017/AMD1 :2020	Lamp holders for Tubular Fluorescent Lamps and Starter holders	AC 1 000 V or less	BS-1	N
IEC 60432-1:1999+AMD1:2005+AMD2:2011	Incandescent lamps - Safety specifications - Part 1: Tungsten filament lamps for domestic and similar general lighting purposes	AC 1 000 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60529:1989+AMD1:1999+AMD2:2013	Degrees of protection provided by enclosures (IP Code)	AC 1 000 V or less	BS-1	N
IEC 60570:2003+AMD1:2017+AMD2:2019	Electrical supply track systems for luminaires Fourth Edition	AC 1 000 V or less	BS-1	N
IEC 60598-1:2014+AMD1:2017	Luminaires - Part 1: General requirements and tests	AC 1 000 V or less	BS-1	N
IEC 60598-2-11:2013	Luminaires - Part2-11: Particular requirements - Aquarium luminaires	AC 1 000 V or less	BS-1	N
IEC 60598-2-1:2020	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires	AC 1 000 V or less	BS-1	N
IEC 60598-2-2:1997	Luminaires - Part 2: Particular requirements - Section 2: Recessed luminaires	AC 1 000 V or less	BS-1	N
IEC 60598-2-2:2011	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	AC 1 000 V or less	BS-1	N
IEC 60598-2-3:2002+AMD1:2011	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	AC 1 000 V or less	BS-1	N
IEC 60598-2-4:2017	Luminaires - Part 2-4: Particular requirements - Portable general purpose luminaires	AC 1 000 V or less	BS-1	N
IEC 60598-2-8:2013	Luminaires - Part2-8: Particular requirements - Hand lamps	AC 1 000 V or less	BS-1	N
IEC 60662:2011	High-Pressure Sodium Vapour Lamps - Performance specifications	AC 1 000 V or less	BS-1	N
IEC 60838-1:2016+AMD1:2017+AMD2:2020	Miscellaneous Lamp holders - Part 1: General Requirements and Tests	AC 1 000 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60838-2-1:1994/AMD2:2004	Amendment 2 - Miscellaneous lamp holders - Part 2-1: Particular requirements - Lamp holders S14	AC 1 000 V or less	BS-1	N
IEC 60838-2-2:2006+AMD1:2012	Miscellaneous lamp holders - Part 2-2: Particular requirements Connectors for LED-modules	AC 1 000 V or less	BS-1	N
IEC 60901:1996/AMD6:2014	Amendment 6 - Single-Capped Fluorescent Lamps - Performance Specifications	AC 1 000 V or less	BS-1	N
IEC 60921:2004+AMD1:2006	Ballasts for tubular fluorescent lamps Performance requirements	AC 1 000 V or less	BS-1	N
IEC 60923:2005+AMD1:2006	Auxiliaries for lamps-Ballasts for discharge lamps (excluding tubular fluorescent lamps) - Performance requirements	AC 1 000 V or less	BS-1	N
IEC 60927:2007+AMD1:2013	Auxiliaries for Lamps - Starting Devices (Other Than Glow Starters) - Performance Requirements	AC 1 000 V or less	BS-1	N
IEC 60929:2011+AMD1:2015	AC and / or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	AC 1 000 V or less	BS-1	N
IEC 60968:2012	Self-Ballasted Lamps for General Lighting Services - Safety Requirements	AC 1 000 V or less	BS-1	N
IEC 60968:2015	Self-ballasted fluorescent lamps for general lighting services - Safety requirements	AC 1 000 V or less	BS-1	N
IEC 60969:2016	Self-ballasted compact fluorescent lamps for general lighting services - performance requirements	AC 1 000 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61047:2004	D.C. or A.C. supplied electronic step-down convertors for filament lamps - Performance requirements	AC 1 000 V or less	BS-1	N
IEC 61050:1991/AMD1:1994	Amendment 1 - Transformers for tubular discharge lamps having a no-load output voltage exceeding 1 000 V(generally called neon-transformers). General and safety requirements	AC 1 000 V or less	BS-1	N
IEC 61167:2018	Metal halide lamps - Performance specification	AC 1 000 V or less	BS-1	N
IEC 61184:2017/AMD1 :2019	Bayonet lamp holders	AC 1 000 V or less	BS-1	N
IEC 61195:1999+AMD1:2012+AMD2:2014	Double-capped fluorescent lamps - Safety specifications	AC 1 000 V or less	BS-1	N
IEC 61199:2011+AMD1:2012+AMD2:2014	Single-capped fluorescent lamps - Safety specifications	AC 1 000 V or less	BS-1	N
IEC 61347-1:2015	Lamp control gear - Part 1 : General and Safety Requirements	AC 1 000 V or less	BS-1	N
IEC 61347-1:2015+AMD1:2017	Lamp control gear - Part 1 : General and safety requirements	AC 1 000 V or less	BS-1	N
IEC 61347-2-10:2000+AMD1:2008	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

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Test method	Standard designation	Test range	Site	Field testing
IEC 61347-2-12:2005+AMD1:2010	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	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	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	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	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	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	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	LED modules for general lighting - Safety specifications	AC 1 000 V or less	BS-1	N
IEC 62035:2014+AMD1:2016	Discharge lamps (excluding fluorescent lamps) - Safety specifications	AC 1 000 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 62384:2020	DC or AC supplied electronic control gear for LED modules Performance requirements	AC 1 000 V or less	BS-1	N
IEC 61347-2-13:2014+AMD1:2016	Lamp control gear - Part 2-13 : Particular requirements for d.c. or a.c. supplied electronic control gear for LED modules	AC 1 000 V or less	BS-1	N
IEC 61347-2-9:2012	Lamp control gear - Part 2-9: Particular requirements for electromagnetic control gear for discharge lamps (excluding fluorescent lamps)	AC 1 000 V or less	BS-1	N
K 10005:2011	Safety requirements for electrodeless fluorescent lamp	AC 1 000 V or less	BS-1	N
K 10006:2006	Safety requirements for induction lamps of PLS type	AC 1 000 V or less	BS-1	N
K 10021:2010	Tublar LED lamps of luminaires - Safety requirements	AC 1 000 V or less	BS-1	N
K 10026:2013	Automatic socket-outlet to cut-off standby power	AC 1 000 V or less	BS-1	N
K 20002:2010	Tublar LED lamps using (external) convertor lampholder	AC 1 000 V or less	BS-1	N
K 60838-1:2011	Miscellaneous lampholders Part 1 : General requirements	AC 1 000 V or less	BS-1	N
K 61047:2008	DC or AC supplied electronic step-down convertors for filament lamp - Performance requirements	AC 1 000 V or less	BS-1	N
K 61184:2008	Bayonet lampholders	AC 1 000 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
K 61347-2-10:2009	Lamp controlgear - 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
K 61347-2-12:2009	Lamp controlgear-Part2-12 : 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
KC 10023:2020	Self-ballasted LED lamps for general lighting services	AC 250 V or less	BS-1	N
KC 10025:2018	LED Lamp for Fluorescent Lamp Retrofit-Internal converter type	AC 250 V or less	BS-1	N
KC 10030:2019	LED Luminaire System Safety Requirements	1 000 W or less	BS-1	Y
KC 20001:2015	Tublar LED lamps using external converter - Safety and Performance Requirements	G13 D12 cap	BS-1	N
KC 60064:2015	Tungsten filament lamps for domestic and similar general lighting purposes-Performance requirements	AC 1 000 V or less	BS-1	N
KC 60081:2017	Double-capped fluorescent lamps - Performance specifications	AC 1 000 V or less	BS-1	N
KC 60155:2015	Glow-starters for fluorescent lamps	AC 1 000 V or less	BS-1	N
KC 60188:2015	High-Pressure Mercury Vapour Lamps - Performance specifications	AC 1 000 V or less	BS-1	N
KC 60192:2015	Low-Pressure sodium vapour lamps - Performance specifications	AC 1 000 V or less	BS-1	N
KC 60238:2015	Edison screw lampholders	AC 1 000 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60357:2015	Tungsten halogen lamps (non-vehicle) - Performance specifications	AC 1 000 V or less	BS-1	N
KC 60400:2015	Lampholders for tubular fluorescent lamps and starterholders	AC 1 000 V or less	BS-1	N
KC 60432-1:2015	Incandescent lamps - Safety specifications Part 1 : Tungsten filament lamps for domestic and similar general lighting purposes	AC 1 000 V or less	BS-1	N
KC 60432-2:2015	Incandescent lamps - Safety specifications Part 2 : Tungsten halogen lamps for domestic and similar general lighting purposes	AC 1 000 V or less	BS-1	N
KC 60432-3:2015	Incandescent lamps - Safety specifications Part 3 : Tungsten halogen lamps (non-vehicle)	AC 1 000 V or less	BS-1	N
KC 60570:2015	Electrical supply track systems for luminaires	AC 1 000 V or less	BS-1	N
KC 60598-1:2015	Luminaires - Part1 : General requirements and tests	AC 1 000 V or less	BS-1	N
KC 60598-2-1:2015	Luminaires - Part2 : Particular requirements. Section One: Fixed general purpose luminaires	AC 1 000 V or less	BS-1	N
KC 60598-2-20:2019	Luminaires Part 2-20 : Particular requirements - Lighting chains	AC 1 000 V or less	BS-1	N
KC 60598-2-2:2015	Luminaires - Part2-2 : Particular requirements - Recessed luminaires	AC 1 000 V or less	BS-1	N
KC 60598-2-4:2015	Luminaires - Part2 : Particular requirements - Section 4: Portable general purpose luminaires	AC 1 000 V or less	BS-1	N
KC 60598-2-5:2015	Luminaires - Part2-5 : Particular requirements - Floodlights	AC 1 000 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60598-2-6:2015	Luminaires - Part2 : Particular requirements - Section 6: Luminaires with built-in transformers for filament lamps	AC 1 000 V or less	BS-1	N
KC 60598-2-8:2018	Luminaires - Part2-8 : Particular requirements - Handlamps	AC 1 000 V or less	BS-1	N
KC 60662:2015	High-pressure sodium vapour lamps - Performance specifications	AC 1 000 V or less	BS-1	N
KC 60838-2-1:2015	Miscellaneous lampholders Part 2 : Particular requirements - Section 1: Lampholders S14	AC 1 000 V or less	BS-1	N
KC 60838-2-2:2015	Miscellaneous lampholders Part 2-2 : Particular requirements - Connectors for LED-modules	AC 1 000 V or less	BS-1	N
KC 60901:2017	Single-capped fluorescent lamps - Performance specifications	AC 1 000 V or less	BS-1	N
KC 60921:2015	Ballasts for tubular fluorescent lamps - Performance requirements	AC 1 000 V or less	BS-1	N
KC 60923:2015	Auxiliaries for lamps - Ballasts for discharge lamps (excluding tubular fluorescent lamps) - Performance requirements	AC 1 000 V or less	BS-1	N
KC 60927:2015	Auxiliaries for lamps - Starting devices (other than glow starters) - Performance requirements	AC 1 000 V or less	BS-1	N
KC 60929:2015	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	AC 1 000 V or less	BS-1	N
KC 60968:2015	Self-ballasted lamps for general lighting services - Safety requirements	AC 1 000 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KC 60969:2015	Self-ballasted lamps for general lighting services - Performance requirements	AC 1 000 V or less	BS-1	N
KC 61050:2015	Transformers for tubular discharge lamps having a no-load output voltage exceeding 1 000 V (generally called neon-transformers). - General and safety requirements	AC 1 000 V or less	BS-1	N
KC 61167:2015	Metal halide lamps	AC 1 000 V or less	BS-1	N
KC 61195:2020	Double-capped fluorescent lamps - Safety specifications	AC 1 000 V or less	BS-1	N
KC 61199:2020	Single-capped fluorescent lamps - Safety specifications	AC 1 000 V or less	BS-1	N
KC 61347-1:2015	Lamp controlgear - Part 1 : General and safety requirements	AC 1 000 V or less	BS-1	N
KC 61347-2-11:2015	Lamp controlgear - Part 2-11 : Particular requirements for miscellaneous electronic circuits used with luminaires	AC 1 000 V or less	BS-1	N
KC 61347-2-13:2015	Lamp controlgear - Part 2-13 : Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	AC 1 000 V or less	BS-1	N
KC 61347-2-1:2015	Lamp controlgear - Part 2-1 : Particular requirements for starting devices (other than glow starters)	AC 1 000 V or less	BS-1	N
KC 61347-2-2:2015	Lamp controlgear - 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

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Test method	Standard designation	Test range	Site	Field testing
KC 61347-2-3:2015	Lamp controlgear - Part 2-3 : Particular requirements for a.c. and/or d.c. supplied electronic controlgear for fluorescent lamps	AC 1 000 V or less	BS-1	N
KC 61347-2-8:2015	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	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 62031:2015	LED modules for general lighting-Safety specifications	AC 1 000 V or less	BS-1	N
KC 62035:2020	Discharge lamps (excluding fluorescent lamps) - Safety	AC 1 000 V or less	BS-1	N
KC 62384:2014	DC or AC supplied electronic control gear for LED modules - Performance requirements	AC 1 000 V or less	BS-1	N
KS C 7651:2018	LED lamps using internal converter	AC 1 000 V or less	BS-1	N
KS C 7652:2018	LED lamps using external converter	AC 1 000 V or less	BS-1	N
KS C 7653:2018	Recessed and Fixed Luminaires	AC 1 000 V or less	BS-1	N
KS C 7655:2018	Electronic converter for LED modules	AC 1 000 V or less	BS-1	N
KS C 7656:2018	LED lamps using Portable Luminaires	AC 1 000 V or less	BS-1	N
KS C 7657:2018	Sensor LED luminaires	AC 1 000 V or less	BS-1	N
KS C 7658:2017	LED Luminaires for Road and Street Lighting - Safety and performance requirements	AC 1 000 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KS C 7659:2013	LED module for Channel Letter Signs - Safety and performance requirements	AC 1 000 V or less	BS-1	N
KS C 7711:2018	LED ground recessed luminaires	AC 1 000 V or less	BS-1	N
KS C 7712:2018	LED flood-lighting luminaires	AC 1 000 V or less	BS-1	N
KS C 7713:2018	LED landscape lighting	AC 1 000 V or less	BS-1	N
KS C 7716:2018	LED tunnel luminaires	400 W or less	BS-1	N
KS C IEC 61167:2019	Metal halide lamps - Performance specification	AC 1 000 V or less	BS-1	N
KS C IEC 62035:2017	Discharge lamps (excluding fluorescent lamps) - Safety	AC 1 000 V or less	BS-1	N

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03. Electrical Testing

03.010 Medical Appliances

Test method	Standard designation	Test range	Site	Field testing
IEC 60601-1 ed.3.0:2005	Medical electrical equipment - Part 1 : General requirements for basic safety and essential performance	Input Voltage : (0 ~ 520) Vac Voltage : (0 ~ 1 000) Vac/Vdc Input Current : 20 A Current : 1 000 A Input Frequency : (45 ~ 66) Hz Input Temperature : (0 ~ 150) ℃ Temperature : (0 ~ 200) ℃ Input Humidity : 93 % R.H. Humidity : 93 % R.H. Distance : 3 000 ㎜ Resistance : 0.1 Ω Radiation dose : 2 uR ~ 100 kR	BS-1	Y
IEC 60601-1 ed.3.1:2012	Medicale electrical equipment - Part 1 : General requirements for basic safety and essential performance	Input Voltage : (0 ~ 520) Vac Voltage : (0 ~ 1 000) Vac/Vdc Input Current : 20 A Current : 1 000 A Input Frequency : (45 ~ 66) Hz Input Temperature : (0 ~ 150) ℃ Temperature : (0 ~ 200) ℃ Input Humidity : 93 % R.H. Humidity : 93 % R.H. Distance : 3 000 ㎜ Resistance : 0.1 Ω Radiation dose : 2 uR ~ 100 kR	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 60601-1-11 ed 1.0:2010	Medical electrical equipment - 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 Duration : 6 ms ~ 30 min Acceleration amplitude : (10 ~ 2 000) Hz Fall height : (0.01 ~ 0.25) m	BS-1	Y
IEC 60601-1-11 ed 2.0:2015	Medical electrical equipment - 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 Duration : 6 ms ~ 30 min Acceleration amplitude : (10 ~ 2 000) Hz Fall height : (0.01 ~ 0.25) m	BS-1	Y
IEC 60601-1-3 ed.2.0:2008	Medical electrical equipment - Part 1-3 : General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment	Distance : 3 000 ㎜ Tube Voltage : 18 kVp ~ 160 kVp Tube Current : (1 ~ 2 000) mA Illumination : 1 500 lx Radiation dose : 2 uR ~ 100 kR	BS-1	Y
IEC 60601-1-3 ed.2.1:2013	Medical electrical equipment - Part 1-3 : General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment	Distance : 3 000 ㎜ Tube Voltage : 18 kVp ~ 160 kVp Tube Current : (1 ~ 2 000) mA Illumination : 1 500 lx Radiation dose : 2 uR ~ 100 kR	BS-1	Y
IEC 60601-1-6 ed.3.1:2013	Medical electrical equipment - Part 1-6 : General requirements for basic safety and essential performance - Collateral standard : Usability	Input Voltage : (0 ~ 520) Vac Voltage : (0 ~ 1 000) Vac/Vdc Input Current : 20 A Current : 1 000 A Input Frequency : (45 ~ 66) Hz	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 60601-1-8 ed.2.1:2012	Medical electrical equipment - Part 1-8 : General requirements for basic safety and essential performance - Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical and medical electrical systems	Illuminance : (100 ~ 1 500) lx Frequency : (150 ~ 4 000) Hz Sound level : (28 ~ 138) dBA	BS-1	Y
IEC 60601-2-2 ed6.0:2017	Medical electrical equipment - 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 HF output : (0 ~ 400) W Monitoring voltage : (1 ~ 12) V Force : (11 ~ 50) N AC impedance : (2 001 ~ 1 000 000) Ω	BS-1	Y
IEC 60601-2-22 ed3.0:2007	Medical electrical equipment - 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 Laser energy : 100 J ~ 40 J	BS-1	Y
IEC 60601-2-22 ed4.0:2019	Medical electrical equipment - 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 Laser energy : 100 J ~ 40 J	BS-1	Y
IEC 60601-2-25 ed2.0:2011	Medical electrical equipment - Part 2-25 : Particular requirements for the basic safety and essential performance of electrocardiographs	Applied voltage : (0.1 ~ 10) mVp-v Frequency : (0.05 ~ 500) Hz Applied pulse duration : (2 ~ 300) ms DC offset : ±1 000 mV	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 60601-2-27 ed3.0:2011	Medical electrical equipment - Part 2-27 : Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment	Applied voltage : (0.1 ~ 10) mVp-v Frequency : (0.05 ~ 500) Hz Applied pulse Duration : (2 ~ 300) ms DC offset : ± 300 mV	BS-1	Y
IEC 60601-2-28 ed3.0:2017	Medical electrical equipment - 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 Voltage : (0 ~ 1 000) Vac/Vdc Input Current : 20 A Current : 1 000 A Input Frequency : (45 ~ 66) Hz	BS-1	Y
IEC 60601-2-3 ed3.1:2016	Medical electrical equipment - Part 2-3 : Particular requirements for the basic safety and essential performance of short-Wave therapy equipment	Output : (0 ~ 500) W time : (1 ~ 30) min	BS-1	Y
IEC 60601-2-34 ed3.0:2011	Medical electrical equipment - Part 2-34 : Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment	Pressure : (0 ~ 400) mmHg Blood pressure : Systolic (120 ~ 130) mmHg / diastolic (80 ~ 90) mmHg	BS-1	Y
IEC 60601-2-37 ed2.1:2015	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 Voltage : (0 ~ 1 000) Vac/Vdc Input Current : 20 A Current : 1 000 A Input Frequency : (45 ~ 66) Hz Ultrasonic output power : (1 ~ 30) W Frequency : (1 ~ 40) MHz	BS-1	Y
IEC 60601-2-4 ed3.1:2018	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators	Energy : (0.1 ~ 360) J Load resistance : (25, 50, 75, 100, 125, 150, 175, 200) Ω Time: (0.1 ~ 100.0) s Voltage (0 ~ 5) kVdc	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 60601-2-49 ed2.0:2011	Medical electrical equipment - Part 2-49 : Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment	Voltage measure range : (0.001 ~ 1 000) Vac (0.001 ~ 1 000) Vdc Time measure range : (0 ~ 30) S	BS-1	Y
IEC 60601-2-5 ed3.0:2009	Medical electrical equipment - Part 2-5 : Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment	Ultrasonic output power : (1 ~ 30) W Frequency : (1 ~ 10) MHz	BS-1	Y
IEC 60601-2-54 ed1.2:2018	Medical electrical equipment - Part 2-54 : Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy 〈Exception〉 203.6.3.2.102 Linearity and constancy in RADIOGRAPHY b) Reproducibility of AUTOMATIC EXPOSURE CONTROLS for DIRECT RADIOGRAPHY c) Constancy of AUTOMATIC EXPOSURE CONTROLS for DIRECT RADIOGRAPHY	Distance : 3 000 ㎜ Tube Voltage : 35 kVp ~ 160 kVp Tube Current : 1 mA ~ 2 000 mA Radiation dose : 2 uR ~ 100 kR	BS-1	Y
IEC 60601-2-57 ed.1.0:2011	Medical electrical equipment - 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 Laser energy : 100 J ~ 40 J	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 60601-2-62 ed.1.0:2013	Medical electrical equipment - Part 2-62 : Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment	Frequency : (1 ~ 10) MHz Ultra sound Power : (0 ~ 30) W	BS-1	Y
IEC 60601-2-63 ed1.1:2017	Medical electrical equipment - Part 2-63 : Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment	Distance : 3 000 ㎜ Tube Voltage : (35 ~ 105) kVp Tube Current : (1 ~ 2 000) mA Radiation dose : 2 uR ~ 100 kR	BS-1	Y
IEC 62366 ed.1.1:2014	Medical devices - Application of usability engineering to medical devices	Input Voltage : (0 ~ 520) Vac Voltage : (0 ~ 1 000) Vac/Vdc Input Current : 20 A Current : 1 000 A Input Frequency : (45 ~ 66) Hz	BS-1	Y
IEC 80601-2-30 ed2.0:2018	Medical electrical equipment - Part 2-30 : Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomano meters	Temperature : (10 ~ 40) ℃ Humidity : (15 ~ 85) % Pressure : (0 ~ 360) mmHg Acceleration : (15 ~ 100) g duration : 6 ms ~ 30 min acceleration amplitude : (10 ~ 2 000) Hz Fall height : (0.01 ~ 0.25) m	BS-1	Y
ISO 80601-2-61 ed2.0:2017	Medical electrical equipment - Part 2-61 : Particular requirements for basic safety and essential performance of pulse oximeter equipment	Acceleration : (15 ~ 100) g duration : 6 ms ~ 30 min acceleration amplitude : (10 ~ 2000) Hz Fall height : (0.01 ~ 0.25) m	BS-1	Y

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03. Electrical Testing

03.011 Electromagnetic Compatibility

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

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Test method	Standard designation	Test range	Site	Field testing
95/54/EC:1995	Adapting to technical progress Council Directive 72/245/EEC on the approximation of the laws of the Member States relating to the suppression of radio interference produced by spark-ignition engines fitted to motor vehicles and amending Directive 70/156/EEC on the approximation of the laws of the Member States relating to the type-approval of motor vehicles and their trailers. 〈Exception〉 ANNEX IV Method of measurement of radiated broadband electromagnetic emissions from vehicles. ANNEX V Method of measurement of radiated narrowband electromagnetic emissions from vehicles. ANNEX VI Method of testing for immunity of vehicles to electromagnetic radiation.	RE : 30 MHz ~ 1 GHz BCI : 20 MHz ~ 400 MHz, 60 mA RI : 80 MHz ~ 2 GHz, 30 V/m TI : -450 V ~ 150 V	BS-2	N
95/56/EC:1995	Adapting to technical progress Council Directive 74/61/EEC relating to devices to prevent the unauthorized use of motor vehicles	RE : 30 MHz ~ 1 GHz BCI : 20 MHz ~ 400 MHz, 60 mA RI : 80 MHz ~ 2 GHz, 30 V/m TI : -450 V ~ 150 V	BS-2	N
ANSI C 63.4:2017	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 18 GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
ANSI C 63.4:2017	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 18 GHz	BS-1	N
AS/NZS CISPR 11:2017	Industrial, scientific and medical equipment -Radio-frequency disturbance characteristics -Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz	BS-2	Y
AS/NZS CISPR 13:2012	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	CE : 150 kHz ~ 2.15 GHz DP : 30 MHz ~ 300 MHz RE : 30 MHz ~ 1 GHz RP : 0.9 GHz ~ 18 GHz	BS-2	Y
AS/NZS CISPR 14-1:2013	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 148.5 kHz ~ 30 MHz DP : 30 MHz ~ 300 MHz RE : 30 MHz ~ 1 GHz	BS-2	Y
AS/NZS CISPR 15:2017	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment 〈Exception〉 4.2 Insertion loss 4.4.1 Table 3a - Radiated disturbance limits in the frequency range 9 kHz to 30 MHz (loop diameter : 3 m and 4 m)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz MFE : 9 kHz ~ 30 MHz	BS-2	N
AS/NZS CISPR 22:2009+A1:2010	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-2	Y
ASTM D 4935-10:2010	Standard Test Method for Measuring the Electromagnetic Shielding Effectiveness of Planar Materials	Frequency range : 30 MHz ~ 1.5 GHz	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
ASTM D4935-18	Standard Test Method for Measuring the Electromagnetic Shielding Effectiveness of Planar Materials	Frequency : Max. 1.5 GHz	BS-2	Y
CISPR 11:2015+AMD1:2016+AMD2:2019	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz	BS-2	Y
CISPR 11:2015+AMD1:2016+AMD2:2019	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz (Exclusion : 30 m)	BS-7	Y
CISPR 11:2015+AMD1:2016+AMD2:2019	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	RE : 150 kHz ~ 18 GHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz	BS-1	Y
CISPR 13:2015	Sound and Television Broadcast Receivers and Associated Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement	CE(mains) : 150 kHz ~ 30 MHz CE(antennaport) : 30 MHz ~ 2.15 GHz CE(RF output port) : 30 MHz ~ 2.15 GHz DP : 30 MHz ~ 300 MHz RE : 30 MHz ~ 1 GHz RP : 0.9 GHz ~ 18 GHz	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
CISPR 13:2015	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement 5.3 Disturbance voltage at the mains terminals in the frequency range 150 kHz to 30 MHz 5.6 Measurement of disturbance power of associated equipment (video recorders excluded) in the frequency range 30 MHz to 1 GHz 5.7 Measurement of radiation in the frequency range 30 MHz to 1 GHz at 3 m	CE : 0.15 MHz ~ 2.15 GHz DP : 30 MHz ~ 1 GHz RE : 30 MHz ~ 1 GHz RP : 0.9 GHz ~ 18 GHz	BS-2	Y
CISPR 14-2:2020	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity - Product family standard	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 230 MHz, 3 V V-DIP : ≤75 A	BS-2	Y
CISPR 15:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment 〈Exception〉 4.2 Insertion loss 4.4.1 Table 3a - Radiated disturbance limits in the frequency range 9 kHz to 30 MHz (loop diameter : 3 m and 4 m)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz MFE : 9 kHz ~ 30 MHz	BS-2	N
CISPR 15:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment 〈Exception〉 4.2 Insertion loss 4.4.1 Table 3a - Radiated disturbance limits in the frequency range 9 kHz to 30 MHz (loop diameter : 3 m and 4 m)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz MFE : 9 kHz ~ 30 MHz	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
CISPR 15:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	RE : 9 kHz ~ 300 MHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz IL : 150 kHz ~ 1 605 kHz	BS-1	N
CISPR 20:2013	Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement	S1 : 535 kHz ~ 890 MHz S2a : 0.15 MHz ~ 150 MHz S2b : 26 MHz ~ 30 MHz S3 : 0.15 MHz ~ 150 MHz S4 : Mid channel at FM Radio & TV receiver Keyed carrier : 824 MHz ~ 849 MHz ESD : ±8 kV EFT : ±1 kV	BS-1	N
CISPR 22:2008	Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-1	Y
CISPR 22:2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-2	Y
CISPR 24:2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 1 A/m V-DIP : ≤75 A SPL : 0.15 MHz ~ 1 GHz	BS-2	Y
CISPR 24:2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz M/F : 1 A/m V-DIP : 16 A per phase or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
CISPR 25:2016	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limit and methods of measurement for the protection of on-board receivers 〈Exception〉 5 Measurement of emissions received by an antenna on the same vehicle 6.6 Radiated emissions from components/modules - TEM cell method 6.7 Radiated emissions from components/modules - Strip line method	CE-V : 150 kHz ~ 108 MHz CE-S : 150 kHz ~ 245 MHz RE : 150 kHz ~ 2.5 GHz	BS-2	Y
CISPR 25:2016	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limit and methods of measurement for the protection of on-board receivers 〈Exceptions〉 5 Measurement of emissions received by an antenna on the same vehicle 6.6 Radiated emissions from components/modules - TEM cell method 6.7 Radiated emissions from components/modules - Strip line method	CE-V : 150 kHz ~ 108 MHz CE-S : 150 kHz ~ 245 MHz RE : 150 kHz ~ 2.5 GHz	BS-7	N
CISPR 32:2015+AMD1:2019	Electromagnetic compatibility of multimedia equipment - Emission requirements	CE(power ports) : 150 kHz ~ 30 MHz CE(signal ports) : 150 MHz ~ 2.15 GHz RE : 30 MHz ~ 6 GHz	BS-1	Y
CISPR 32:2015+AMD1:2019	Electromagnetic compatibility of multimedia equipment - Emission requirements	CE(power ports) : 150 kHz ~ 30 MHz CE(signal ports) : 150 MHz ~ 2.15 GHz RE : 30 MHz ~ 6 GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
CISPR 32:2015+AMD1: 2019	Electromagnetic compatibility of multimedia equipment - Emission requirements	CE(power ports) : 150 kHz ~ 30 MHz CE(signal ports) : 150 MHz ~ 2.15 GHz RE : 30 MHz ~ 6 GHz	BS-7	N
CISPR 35:2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz MFS : 1 A/m V-DIP : ≤75 A SPL : 0.15 MHz ~ 1 GHz	BS-2	N
CISPR 35:2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 1 A/m V-DIP : ≤75 A SPL : 0.15 MHz ~ 1 GHz	BS-1	Y
CISPR 35:2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 1 A/m V-DIP : < 5 %, 0.5 cycle 70 %, 25/30 cycles (50/60) Hz Voltage interruptions : < 5 %, 250/300 cycles (50/60) Hz SPL : 0.15 MHz ~ 1 GHz	BS-7	N
DMFC 4-40-70:2012	Electromagnetic waves protection facility designing standard <Exception> Long Pulse PCI test	Frequency range : 10 kHz ~ 1 GHz(SE), 100 kHz ~ 1 GHz(CWI) (PCI) : Short pulse 5 kA, Intermediate pulse 250 A	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
ECE R-10.04:2012+A2:2013	Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility 〈Exception〉 Annex 4 : Method of Measurement of Radiated Broadband Electromagnetic Emissions from Vehicles Annex 5 : Method of Measurement of Radiated Narrowband Electromagnetic Emissions from Vehicles Annex 6 : Method of Testing for Immunity of Vehicles to Electromagnetic Radiation	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz BCI : 20 MHz ~ 400 MHz, 60 mA RI : 80 MHz ~ 2 GHz, 30 V/m TI : -450 V ~ 150 V TE : 1 000 ns ~ 1 000 ms EFT : ±2 KV Surge : ±2 KV H/F : ≤64 A	BS-2	N
ECE R-10.05:2014	Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility 〈Exception〉 Annex 4 : Method of measuring broadband electromagnetic disturbances generated by vehicles Annex 5 : Method of measuring narrowband electromagnetic disturbances generated by vehicles Annex 6 : Method of testing vehicle immunity to electromagnetic radiation	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz BCI : 20 MHz ~ 400 MHz, 60 mA RI : 80 MHz ~ 2 GHz, 30 V/m TI : -450 V ~ 150 V TE : 1 000 ns ~ 1 000 ms EFT : ±2 kV Surge : ±2 kV (2-40) Harmonic Flicker : Single phase ≤16 A 3-phase per phase ≤75 A	BS-7	N

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

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

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Test method	Standard designation	Test range	Site	Field testing
EN 13309:2010	Construction machinery - Electromagnetic compatibility of machines with internal power supply 〈Exception〉 4.2 Specifications concerning broadband electromagnetic emission radiated from construction machinery 4.3 Specifications concerning narrowband electromagnetic emission radiated from construction machinery 4.4 Specifications concerning the immunity of construction machinery to electromagnetic radiation 4.7.2 Stripline Test - TEM Cell Test	RE : 30 MHz ~ 1 GHz RI : 20 MHz ~ 2 GHz BCI : 1 MHz ~ 400 MHz ESD : ±25 kV CTI : (-600 ~ 300) V CTE : (-450 ~ 150) V	BS-2	Y
EN 301 489-1 V2.2.3 (2019-11)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part1 : Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz (2-40) Harmonic Flicker : Single phase ≤16 A 3-phase per phase ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 %, 0.5 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz TI : -600 V ~ 300 V	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
EN 301 489-13 V1.2.1:2002	Part 13 : Specific conditions for Citizens Band (CB) radio and ancillary equipment (speech and non-speech)	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 30 A/m V-DIP : (0 ~ 100) % F/H : ≤16 A	BS-2	N
EN 301 489-15 V1.2.1:2002	Part 15 : Specific conditions for commercially for available amateur radio equipment	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 30 A/m V-DIP : (0 ~ 100) % F/H : ≤16 A	BS-2	N
EN 301 489-17 V3.2.4 (2020-09)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part17 : Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz (2-40) Harmonic Flicker : Single phase ≤16 A 3-phase per phase ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 %, 0.5 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz TI : -600 V ~ 300 V	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
EN 301 489-17:2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N
EN 301 489-18 V1.3.1:2002	Part 18 : Specific conditions for Terrestrial Trunked Radio (TETRA) equipment	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 30 A/m V-DIP : (0 ~ 100) % F/H : ≤16 A	BS-2	N
EN 301 489-19:2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
EN 301 489-1:2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N
EN 301 489-2 V2.1.1 (2019-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part2 : Specific conditions for radio paging equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz (2-40) Harmonic Flicker : Single phase ≤16 A 3-phase per phase ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 %, 0.5 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz TI : -600 V ~ 300 V	BS-7	N
EN 301 489-20:2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES)used in the Mobile Satellite Services (MSS)	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
EN 301 489-23 V1.5.1:2011	Part 23 : Specific conditions for IMT-2000 CDMA, Direct Spread (UTRA and E-UTRA) Base Station (BS) radio, repeater and ancillary equipment	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 30 A/m V-DIP : (0 ~ 100) % F/H : ≤16 A	BS-2	N
EN 301 489-24 V1.5.1:2010	Part 24 : Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 30 A/m V-DIP : (0 ~ 100) % F/H : ≤16 A	BS-2	N
EN 301 489-25 V2.3.2:2005	Part 25 : Specific conditions for CDMA 1x spread spectrum Mobile Stations and ancillary equipment	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 30 A/m V-DIP : (0 ~ 100) % F/H : ≤16 A	BS-2	N
EN 301 489-26 V2.3.2:2005	Part 26 : Specific conditions for CDMA 1x spread spectrum Base Stations, repeaters and ancillary equipment	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 30 A/m V-DIP : (0 ~ 100) % F/H : ≤16 A	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
EN 301 489-27:2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) operating in the 402 MHz to 405 MHz bands; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N
EN 301 489-2:2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 2: Specific conditions for radio paging equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N
EN 301 489-3 V2.1.1 (2019-03)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part3 : 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 RE : 30 MHz ~ 6 GHz (2-40) Harmonic Flicker : Single phase ≤16 A 3-phase per phase ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 %, 0.5 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz TI : -600 V ~ 300 V	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
EN 301 489-33:2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 33: Specific conditions for Ultra-WideBand (UWB) devices; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N
EN 301 489-34:2017	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 RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N
EN 301 489-3:2017	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 RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N
EN 301 489-4:2017	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 RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
EN 301 489-50 V2.2.1 (2019-04)	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 RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N
EN 301 489-51 V2.1.1 (2019-04)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	ESD: ±30 kV RS: Max. 10 V/m (80 MHz ~ 6 GHz) EFT/Burst: ±4 kV Surge: ±6 kV CS: Max. 10 V (0.15 MHz ~ 230 MHz) MFS: 30 A/m V-DIP: ≤75 A	BS-2	N
EN 301 489-52:2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±8 kV RS : 80 MHz ~ 6 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz V-DIP : ≤75 A	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
EN 301 489-5:2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA); Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N
EN 301 489-6:2017	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 RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N
EN 301 489-7:2005	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part7 : Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
EN 301 489-9:2017	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 RE : 30 MHz ~ 6 GHz H/F : ≤75 A ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A TI : -600 V ~ 300 V	BS-2	N
EN 50121-1:2015	Railway applications - Electromagnetic compatibility - Part 1: General	-	BS-2	Y
EN 50121-2:2015	Railway applications - Electromagnetic compatibility - Part 2: Emission of whole railway system to the outside world	RE : 9 kHz ~ 1 GHz	BS-2	Y
EN 50121-3-1:2015	Railway applications - Electromagnetic compatibility - Part 3-1: Rolling stock - Train and complete vehicle	RE : 9 kHz ~ 1 GHz	BS-2	Y
EN 50121-3-2:2016+A1:2019	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz CS : 150 kHz ~ 80 MHz EFT : ±2 kV SURGE : ±2 kV	BS-2	Y
EN 50121-4:2016+A1:2019	Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz CS : 150 kHz ~ 80 MHz EFT : ±2 kV SURGE : ±2 kV MFS : 300 A/m	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 50121-5:2017+A1:2019	Railway applications - Electromagnetic compatibility - Part 5: Emission and immunity of the fixed power supply installations and apparatus	CE : 150 kHz ~ 30 MHz RE : 150 kHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz CS : 150 kHz ~ 80 MHz Oscillatory waves : 2.5 kV EFT : ±4 kV SURGE : ±4 kV MFS : 300 A/m	BS-2	Y
EN 50130-4:2011+A1:2014	Alarm systems - Part 4 : Electromagnetic compatibility - Product family standard : Immunity requirements for components of fire, intruder hold up, CCTV, access control and social alarm systems	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 100 MHz, 10 V V-DIP : ≤75 A	BS-2	Y
EN 50130-4:2011+A1:2014	Alarm systems - Part 4 : Electromagnetic compatibility - Product family standard : Immunity requirements for components of fire, intruder hold up, CCTV, access control and social alarm systems	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 100 MHz, 10 V V-DIP : 0 %, 250 cycle 40 %, 10 cycles 70 %, 25 cycles 80 %, 250 cycles	BS-7	N
EN 50130-4:2011+A1:2014	Alarm systems Part4. Electromagnetic compatibility Product family standard : Immunity requirements for components of fire intruder and social alarm systems	Voltage variations : Max.U(nom)+10 %, Min.U(nom)-15 % ESD : Max. 8 kV RS : 80 MHz ~ 1 000 MHz, 10 V/m SURGE : Max. ±2 kV CS : 150 kHz ~ 100 MHz EFT : Max. ±2 kV V-reduction : 60 %, 100 %	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 50155:2017	Railway applications - Rolling stock - Electronic equipment 〈Exception〉 13.4.4 Low temperature start-up test 13.4.5 Dry heat test 13.4.6 Low temperature storage test 13.4.7 Cyclic damp heat test 13.4.9 Insulation test 13.4.10 Salt mist test 13.4.11 Vibration and shock test 13.4.12 Enclosure protection test (IP code) 13.4.13 Stress screening test 13.4.14 Rapid Temperature variation test	CE: 150 kHz ~ 30 MHz RE: 9 kHz ~ 18 GHz ESD: ±30 kV RS: 80 MHz ~ 6 GHz EFT: ±4 kV Surge: ±6 kV CS: 150 kHz ~ 230 MHz MFS: 300 A/m V-DIP: ≤75 A	BS-2	Y
EN 50270:2015	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases toxic gases or oxygen	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤ 75 A ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : ≤75 A	BS-2	Y
EN 50498:2010	Electromagnetic compatibility (EMC) - Product family standard for after market electronic equipment in vehicles	RE : 30 MHz ~ 1 GHz TI : -450 V ~ 150 V TE : 1 000 ns ~ 1 000 ms	BS-7	N
EN 50498:2010	Electromagnetic compatibility (EMC) - Product family standard for aftermarket electronic equipment in vehicles	RE : 30 MHz ~ 1 GHz TI : -450 V ~ 150 V TE : 1 000 ns ~ 1 000 ms	BS-2	N
EN 55011:2020	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 55011:2020	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz (Exclusion : 30 m)	BS-7	Y
EN 55011:2020	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	RE : 150 kHz ~ 18 GHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz	BS-1	Y
EN 55013:2016	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement 5.3 Disturbance voltage at the mains terminals in the frequency range 150 kHz to 30 MHz 5.6 Measurement of the disturbance power of associated equipment (video recorders excluded) in the frequency range 30 MHz to 1 GHz 5.7 Measurement of radiation in the frequency range 30 MHz to 1 GHz at 3 m distance	CE : 150 kHz ~ 2.15 GHz DP : 30 MHz ~ 300 MHz RE : 30 MHz ~ 1 GHz RP : 0.9 GHz ~ 18 GHz	BS-2	Y
EN 55013:2016	sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	CE(mains) : 150 kHz ~ 30 MHz CE(antenna port) : 30 MHz ~ 2.15 GHz CE(RF output port) : 30 MHz ~ 2.15 GHz DP : 30 MHz ~ 300 MHz RE : 30 MHz ~ 1 GHz RP : 0.9 GHz ~ 18 GHz	BS-1	N
EN 55014-1:2020	Electromagnetic compatibility - Requirements for household appliances electric tools and similar apparatus - Part 1: Emission	CE : 148.5 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DP : 30 MHz ~ 1 GHz RE : 9 kHz ~ 1 GHz	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 55014-1:2020	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 148.5 kHz ~ 30 MHz DCE : 148.5 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DP : 30 MHz ~ 1 GHz RE : 9 kHz ~ 1 GHz	BS-7	N
EN 55014-1:2020	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 148.5 kHz ~ 30 MHz DCE : 148.5 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DP : 30 MHz ~ 1 GHz RE : 9 kHz ~ 1 GHz	BS-2	Y
EN 55014-2:2015	Electromagnetic compatibility - Requirements for household appliances electric tools and similar apparatus - Part 2: Immunity - Product family standard	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 230 MHz V-DIP : 16 A per phase or less	BS-1	Y
EN 55014-2:2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity - Product family standard	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 230 MHz, 3 V V-DIP : 0 %, 0.5 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz	BS-7	N
EN 55014-2:2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity - Product family standard	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 230 MHz, 3 V V-DIP : ≤75 A	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 55015:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment 〈Exception〉 4.2 Insertion loss 4.4.1 Table 3a - Radiated disturbance limits in the frequency range 9 kHz to 30 MHz (loop diameter : 3 m and 4 m)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz MFE : 9 kHz ~ 30 MHz	BS-2	N
EN 55015:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment 〈Exception〉 4.2 Insertion loss 4.4.1 Table 3a - Radiated disturbance limits in the frequency range 9 kHz to 30 MHz (loop diameter : 3 m and 4 m)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz MFE : 9 kHz ~ 30 MHz	BS-7	N
EN 55015:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	RE : 9 kHz ~ 300 MHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz IL : 150 kHz ~ 1 605 kHz	BS-1	N
EN 55020:2007+A12:2016	Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement	S1 : 535 kHz ~ 890 MHz S2a : 0.15 MHz ~ 150 MHz S2b : 26 MHz ~ 30 MHz S3 : 0.15 MHz ~ 150 MHz S4 : Mid channel at FM Radio & TV receiver Keyed carrier : 824 MHz ~ 849 MHz ESD : ±8 kV EFT : ±1 kV	BS-1	N
EN 55022:2010	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 55022:2010	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-1	Y
EN 55024:2010+A1:2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 1 A/m V-DIP : ≤75 A SPL : 0.15 MHz ~ 1 GHz	BS-2	Y
EN 55024:2010+A1:2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz M/F : 1 A/m V-DIP : 16 A per phase or less	BS-1	Y
EN 55032:2020	Electromagnetic compatibility of multimedia equipment - Emission Requirements	CE(power ports) : 150 kHz ~ 30 MHz CE(signal ports) : 150 MHz ~ 2.15 GHz RE : 30 MHz ~ 6 GHz	BS-2	Y
EN 55032:2020	Electromagnetic compatibility of multimedia equipment - Emission Requirements	CE(power ports) : 150 kHz ~ 30 MHz CE(signal ports) : 150 MHz ~ 2.15 GHz RE : 30 MHz ~ 6 GHz	BS-7	N
EN 55032:2020	Electromagnetic compatibility of multimedia equipment - Emission Requirements	CE(power ports) : 150 kHz ~ 30 MHz CE(signal ports) : 150 MHz ~ 2.15 GHz RE : 30 MHz ~ 6 GHz	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 55035:2017	Electromagnetic compatibility of multimedia equipment - Immunity Requirements	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz MFS : 1 A/m V-DIP : ≤75 A SPL : 0.15 MHz ~ 1 GHz	BS-2	Y
EN 55035:2017+A11:2020	Electromagnetic compatibility of multimedia equipment - Immunity Requirements	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 1 A/m V-DIP : ≤75 A SPL : 0.15 MHz ~ 1 GHz	BS-1	Y
EN 55035:2020	Electromagnetic compatibility of multimedia equipment - Immunity Requirements	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 1 A/m V-DIP : < 5 %, 0.5 cycle 70 %, 25/30 cycles (50/60) Hz < 5 %, 250/300 cycles (50/60) Hz SPL : 0.15 MHz ~ 1 GHz	BS-7	N
EN 60255-22-7:2003	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	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 60601-1-2:2015	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE : 150 kHz ~ 1 GHz CE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.5 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y
EN 60601-1-2:2015	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 RE : 150 kHz ~ 18 GHz ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 28 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 6 V MFS : 30 A/m V-DIP : 0 %, 0.5 cycle (At 0 °, 45 °, 90 °, 135 °, 180 °, 225 °, 270 °and 315 °) 0 %, 1 cycles (At 0 °) 70 %, 25/30 cycles (50/60) Hz, (At 0 °) Voltage interruptions : 0 %, 250/300 cycles (50/60) Hz	BS-7	N
EN 60601-1-2:2015	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 RE : 150 kHz ~ 18 GHz ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 28 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 6 V MFS : 30 A/m V-DIP : ≤75 A	BS-2	Y

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

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Test method	Standard designation	Test range	Site	Field testing
EN 61000-3-11:2019	Electromagnetic compatibility (EMC) - Part 3-11 : Limits - Limitation of voltage change, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤75 A and subject to conditional connection	AC input current : 16 A ~ 75 A 220 V ~ 250 V (L-N)	BS-7	N
EN 61000-3-11:2019	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 ≤75 A and subject to conditional connection	75 A or less Pst <1.0 Plt <0.65 d(t) <3.3 % dc <3.3 % dMax. : a) <4 % , b) <6 %, c) <7 %	BS-1	Y
EN 61000-3-12:2011	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 ≤75 A per phase	AC input current : Max. 75 A (per phase)	BS-2	Y
EN 61000-3-12:2011	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 ≤ 75 A per phase	AC input current : 16 A ~ 75 A 220 V ~ 240 V (Single phase) 380 V ~ 690 V (Three phase)	BS-7	N
EN 61000-3-2:2019	Electromagnetic compatibility (EMC) - Part 3-2 : Limits - Limits for harmonic current emissions (equipment input current ≤16 A per Phase)	AC input current : Max. 16 A (per phase)	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 61000-3-2:2019	Electromagnetic compatibility (EMC) - Part 3-2 : Limits - Limits for harmonic current emissions (equipment input current ≤16 A per Phase)	AC input current : ≤16 A (Single phase)	BS-7	N
EN 61000-3-2:2019	Electromagnetic compatibility(EMC) - Part 3-2: Limits - Limits for Harmonic Current Emissions(equipment input current ≤16 A per phase)	16 A or less	BS-1	Y
EN 61000-3-3:2019	Electromagnetic compatibility (EMC) - Part 3-3 : Limits - 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. 16 A (per phase)	BS-2	Y
EN 61000-3-3:2019	Electromagnetic compatibility (EMC) - Part 3-3 : Limits - 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-7	N
EN 61000-3-3:2019	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 ≤16 A per phase and not subject to conditional connection)	16 A or less Pst <1.0 Plt <0.65 d(t) <3.3 % dc <3.3 % dMax. : a) <4 % , b) <6 %, c) <7 %	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 61000-4-11:2004+A1:2017	Electromagnetic compatibility (EMC) - Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	0 %, 0.5 cycle 0 %, 1 cycle 70 %, 25/30 cycles(50/60) Hz 40 %, 10/12 cycles(50/60) Hz 80 %, 250/300 cycles(50/60) Hz 0 %, 250/300 cycles(50/60) Hz	BS-7	N
EN 61000-4-11:2020	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	Y
EN 61000-4-11:2020	Electromagnetic compatibility(EMC) - Part 4-11: Testing and measurement techniques - Voltage Dips Short Interruptions and Voltage Variations Immunity Tests	16 A per phase or less 0 % during 1/2 cycle 0 % during 1 cycle 40 % during 10/12 cycle 70 % during 25/30 cycle 80 % during 250/300 cycle	BS-1	Y
EN 61000-4-12:2017	Electromagnetic compatibility (EMC) - Part 4-12 : Testing and measurement techniques -Ring wave immunity test	Voltage : ±4 kV	BS-2	Y
EN 61000-4-13:2016	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 Voltage : U1 × 12 %	BS-2	Y
EN 61000-4-13:2016	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 Voltage : U1 x 12 %	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
EN 61000-4-14:1999+A2:2009	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 : ±12 % Un	BS-2	Y
EN 61000-4-14:1999+A2:2009	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 : ±12 % Un	BS-7	N
EN 61000-4-16:2016	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	Maximum Voltage : (Continuous field) 30 Vrms (Short persistence) 300 Vrms	BS-2	Y
EN 61000-4-19:2014	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, 20 V	BS-2	Y
EN 61000-4-27:2000+A1:2009	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	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 61000-4-28:2000+A2:2009	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	Y
EN 61000-4-29:2000	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	Y
EN 61000-4-2:2009	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	Voltage : ±30 kV	BS-2	Y
EN 61000-4-2:2009	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	Voltage : ±15 kV	BS-7	N
EN 61000-4-2:2009	Electromagnetic compatibility(EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	Max. ±30 kV, 150 pF /330 Ω	BS-1	Y
EN 61000-4-3:2020	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	Freq. : 80 MHz ~ 18 GHz E/F : 30 V/m	BS-2	Y
EN 61000-4-3:2020	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electro magnetic field immunity test	Freq. : 80 MHz ~ 18 GHz E/F : 30 V/m	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
EN 61000-4-3:2020	Electromagnetic compatibility(EMC) - Part 4-3: Testing and measurement techniques - Radiated radio-frequency electromagnetic field immunity test	RS : 80 MHz ~ 6 GHz, 10 V/m	BS-1	N
EN 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	Voltage : ±5.5 kV	BS-2	Y
EN 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	Voltage : ±4 kV	BS-7	N
EN 61000-4-4:2012	Electromagnetic compatibility(EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EFT : ±4 kV	BS-1	Y
EN 61000-4-5:2014+A1:2017	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge immunity test	Surge : ±7 kV	BS-2	Y
EN 61000-4-5:2014+A1:2017	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge immunity test	Surge : ±4 kV	BS-7	N
EN 61000-4-5:2014+A1:2017	Electromagnetic compatibility(EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	SURGE : ±7 kV	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 61000-4-6:2014	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to conducted disturbance, induced by radio-frequency fields	Freq. : 150 kHz ~ 230 MHz Voltage : 10 V	BS-7	N
EN 61000-4-6:2014	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to conducted disturbance, induced by radio-frequency fields	Freq. : 150 kHz ~ 230 MHz Voltage : 30 V	BS-2	Y
EN 61000-4-6:2014	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 Voltage : Max. 10 Vrms	BS-1	Y
EN 61000-4-8:2010	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test	Maximum magnetic field (continuous field) 100 A/m (Short persistence) 1 000 A/m	BS-7	N
EN 61000-4-8:2010	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test	Maximum Magnetic field : (Continuous field) 100 A/m (Short persistence) 1 000 A/m	BS-2	Y
EN 61000-4-8:2010	Electromagnetic compatibility(EMC) - Part 4-8: Testing and measurement techniques - power frequency magnetic field immunity test	M/F : 100 A/m	BS-1	Y
EN 61000-4-9:2016	Electromagnetic compatibility (EMC) - Part 4-9 : Testing and measurement techniques - Pulse magnetic field immunity test	Pulse MFS : 1 000 A/m	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 61000-4-9:2016	Electromagnetic compatibility (EMC) - Part 4-9 : Testing and measurement techniques - Pulse magnetic field immunity test	Pulse MFS : 1 000 A/m	BS-7	N
EN 61000-4-9:2016	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
EN 61000-6-1:2007	Electromagnetic compatibility(EMC) - Part 6-1: Generic standards - Immunity for residential commercial and light-industrial environments	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y
EN 61000-6-1:2019	Electromagnetic compatibility (EMC) - Part 6-1 : Generic standards - Immunity for residential, commercial and light-industrial environments	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	Y
EN 61000-6-1:2019	Electromagnetic compatibility (EMC) - Part 6-1 : Generic standards - Immunity for residential, commercial and light-industrial environments	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : ≤75 A	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 61000-6-2:2005	Electromagnetic compatibility(EMC) - Part 6-2: Generic standards - Immunity for industrial environments	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 30 A/m V-DIP : 16 A per phase or less	BS-1	Y
EN 61000-6-2:2019	Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards - Immunity for industrial environments	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : ≤75 A	BS-2	Y
EN 61000-6-2:2019	Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards - Immunity for industrial environments	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : 0 %, 0.5 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	Y
EN 61000-6-3:2007+A1:2011	Electromagnetic compatibility (EMC) - Part 6-3 : Generic standards - Emission standard for residential, commercial and light-industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A RE : Max. 18 GHz	BS-2	Y
EN 61000-6-3:2007+A1:2011	Electromagnetic compatibility (EMC) - Part 6-3 : Generic standards - Emission standard for residential, commercial and light-industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz (2-40) Harmonic Flicker : Single phase ≤16 A 3-phase per phase ≤75 A RE : Max. 6 GHz	BS-7	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 61000-6-3:2007+A1:2011	Electromagnetic compatibility(EMC) - Part 6-3: Generic standards - Emission standard for residential commercial and light - industrial environments	RE : 30 MHz ~ 1 GHz CE : 150 kHz ~ 30 MHz	BS-1	Y
EN 61000-6-4:2007+A1:2011	Electromagnetic compatibility(EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	RE : 30 MHz ~ 1 GHz CE : 150 kHz ~ 30 MHz	BS-1	Y
EN 61000-6-4:2019	Electromagnetic compatibility (EMC) - Part 6-4 : Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-2	Y
EN 61000-6-4:2019	Electromagnetic compatibility (EMC) - Part 6-4 : Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-7	Y
EN 61204-3:2018	Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility(EMC)	ESD: ±30 kV RS: Max 10 V/m (80 MHz ~ 6 GHz) EFT: Max ±4 kV Surge: Max ±6 kV CS: Max 10 V (0.15 MHz ~ 230 MHz) MFS: 30 A/m V-DIP: ≤75 A	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 61326-1:2013	Electrical equipment for measurement control and laboratory use - EMC requirements - Part 1: General requirements	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : Max ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MF : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y
EN 61326-1:2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - General requirements	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : Max ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
EN 61326-2-1:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-2	Y
EN 61326-2-1:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-1	N
EN 61326-2-1:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
EN 61326-2-2:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-2	Y
EN 61326-2-2:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-1	N
EN 61326-2-2:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
EN 61326-2-3:2013	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	ESD : ±8 kV RS : 80 MHz ~ 3 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : 16 A per phase or less	BS-1	Y
EN 61326-2-4:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-2	Y
EN 61326-2-4:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
EN 61326-2-4:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N
EN 61326-2-5:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kV ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-1	N
EN 61326-2-5:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 61326-2-5:2013	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N
EN 61326-2-6 : 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 : Particular requirements - In vitro diagnostic(IVD) medical equipment	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N
EN 61326-2-6:2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 : Particular requirements - In vitro diagnostic(IVD) medical equipment	ESD : ±8 kV RS : 80 MHz ~ 3 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 61547:2009	Equipment for general lighting purposes. EMC immunity requirements	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-2	Y
EN 61547:2009	Equipment for general lighting purposes. EMC immunity requirements	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 70 %, 10 cycles	BS-7	N
EN 61547:2009	Equipment for general lighting purposes. EMC immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-1	Y
EN 62040-2:2018	Uninterruptible power systems(UPS) - Part 2 : Electromagnetic compatibility (EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : 16 A per phase or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
EN 62040-2:2018	Uninterruptible power systems(UPS) - Part 2 : Electromagnetic compatibility(EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : ≤16 A per phase	BS-2	Y
EN 62040-2:2018	Uninterruptible power systems(UPS) - Part 2 : Electromagnetic compatibility(EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 10 V/m EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m	BS-7	N
EN 62233:2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	Freq. : 1 Hz ~ 10 GHz	BS-2	Y
EN 62233:2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	Freq. : 1 Hz ~ 10 GHz	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
EPRI Rev.1:1997	Guidelines for electromagnetic interference testing in power plants : 7-2 Equipment conducted emissions, 30 Hz to 50 kHz 7-3 Equipment conducted emissions, 50 kHz to 400 MHz 7-4 Equipment radiated magnetic field emissions, 30 Hz to 100 kHz 7-5 Equipment radiated electric field emissions, 10 kHz to 1 GHz B-10 Continuous wave, Radiated B-11 Continuous wave, conducted B-12 Surge tests B-14 Fast transient and impulse tests B-14 Electrostatic Discharge	CE, CS : Max. 1 GHz RE, RS : Max. 18 GHz Electric field : Max. 50 V/m Magnetic field : Max. 180 dBpT Eletrostatic Voltage : Max. 30 kV EFT Voltage : Max. 5.5 kV Surge Voltage : Max. 6.6 kV	BS-2	Y
EPRI Rev.2:2000	Guidelines for electromagnetic interference testing in power plants : 5-8 Low-frequency conducted susceptibility 5-10 High-frequency conducted susceptibility 5-12 Low-frequency radiated susceptibility 5-14 High-frequency radiated susceptibility 5-15 Surge 5-16 Electrically-Fast Transient/Burst 5-17 Electrostatic Discharge 5-18 Low-frequency conducted emissions 5-20 High-frequency conducted emissions 5-22 Low-frequency radiated emissions 5-24 High-frequency radiated emissions	CE, CS : Max. 1 GHz RE, RS : Max. 18 GHz Electric field : Max. 50 V/m Magnetic field : Max. 180 dBpT Eletrostatic Voltage : Max. 30 kV EFT Voltage : Max. 5.5 kV Surge Voltage : Max. 6.6 kV	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
EPRI Rev.3:2004	Guidelines for Electromagnetic Interference Testing of Power Plant Equipment : 5-6 Low-frequency conducted susceptibility 5-8 High-frequency conducted susceptibility 5-10 Low-frequency radiated magnetic field susceptibility 5-12 High-frequency radiated electric field susceptibility 5-13 Surge 5-15 Electrically-Fast Transient/Burst 5-17 Electrostatic Discharge 5-19 Low-frequency conducted emissions 5-21 High-frequency conducted emissions 5-23 Low-frequency radiated magnetic field emissions 5-24 High-frequency radiated electric field emissions	CE, CS : Max. 1 GHz RE, RS : Max. 18 GHz Electric field : Max. 50 V/m Magnetic field : Max. 180 dBpT Eletrostatic Voltage : Max. 30 kV EFT Voltage : Max. 5.5 kV Surge Voltage : Max. 6.6 kV	BS-2	Y
ETSI EN 300 386:2016	Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements; Harmonised Standard covering the essential requirements of the Directive 2014/30/EU	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤16 A	BS-2	Y
FCC part 15:2018	Radio Frequency Device Subpart B - Unintentional Radiators	CE : 150 kHz ~ 30 MHz RE : Max. 18 GHz	BS-2	N
FCC part 15:2018	Radio Frequency Device Subpart B - Unintentional Radiators	CE : 150 kHz ~ 30 MHz RE : Max. 18 GHz	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
FCC part 15:2019	Radio Frequency Device Subpart B - Unintentional Radiators <Exception> 15.115 TV interface devices including cable system terminal devices	RE : 30 MHz ~ 18 GHz CE : 150 kHz ~ 30 MHz	BS-1	N
FCC part 18:2018	Industrial, scientific and medical device	CE : 150 kHz ~ 30 MHz RE : Max. 18 GHz	BS-2	N
FCC part 18:2018	Industrial, scientific and medical device	CE : 150 kHz ~ 30 MHz RE : Max. 18 GHz	BS-7	N
GMW3097:2015	General Specification for Electrical/ Electronic Components and Subsystems, Electromagnetic Compatibility <Exception> 3.4.3 Immunity, Reverberation, Mode Tuning	BCI : 1 MHz ~ 400 MHz, 106 mA RI : 80 MHz ~ 2 GHz, 300 V/m MI : DC ~ 1 MHz, 1 275 μT CE : 530 kHz ~ 1.71 MHz RE : 530 KHz ~ 1.606 GHz ME : 100 KHz ~ 150 kHz TI : -200 V ~ 100 V TE : 1 000 ns ~ 1 000 ms ESD : ±25 kV	BS-2	N
GMW3100:2003	General Specification for Electrical/ Electronic Components and Subsystems, Electromagnetic Compatibility - Verification	-	BS-2	N
GMW3172:2012	General Specification for Electrical/Electronic Component Analytical/Development/Validation (A/D/V) Procedures for Conformance to Vehicle Environmental, Reliability, Durability, and Performance Requirements	Freq. : 1 Hz ~ 4 kHz Voltage : -13.5 V ~ 26 V	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
GSFC-STD-7000A:2013	GENERAL ENVIRONMENTAL VERIFICATION STANDARD (GEVS) For GSFC Flight Programs and Projects 2.5.2.1.1 Conducted Emissions, Power Leads, Differential Mode 2.5.2.1.2 Conducted Emissions, Common Mode, Power and Signal Lines 2.5.2.1.3 Conducted Emissions, Time Domain, Transients 2.5.2.1.4 Conducted Emissions, Antenna Terminal 2.5.2.2.1 Conducted Susceptibility, Power Leads, 30 Hz to 150 kHz 2.5.2.2.2 Conducted Susceptibility, Antenna Terminals 2.5.2.2.3 Conducted Susceptibility, Transients, Power Leads 2.5.2.2.4 Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 200 MHz 2.5.2.2.5 Conducted Susceptibility, Bulk Cable Injection, Impulse Excitation 2.5.2.3.1 Radiated Emissions, Magnetic Field 2.5.2.3.2 Radiated Emissions, Electric Field 2.5.2.4.1 Radiated Susceptibility, Magnetic Field 2.5.2.4.2 Radiated Susceptibility, Electric Field	2.5.2.1.1 30 Hz to 50 MHz 2.5.2.1.2 30 Hz to 200 MHz 2.5.2.1.4 10 kHz to 40 GHz 2.5.2.2.1 30 Hz to 150 kHz 2.5.2.2.2 30 Hz to 20 GHz 2.5.2.2.3 200 V, 150 ns, 10 μs 2.5.2.2.4 10 kHz to 200 MHz 2.5.2.2.5 Impulse 5 A 2.5.2.3.1 30 Hz to 100 kHz 2.5.2.3.2 200 MHz to 18 GHz 2.5.2.4.1 30 Hz to 100 kHz 2.5.2.4.2 2 MHz to 18 GHz	BS-6	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60255-26:2013	MEASURING RELAYS AND PROTECTION EQUIPMENT - Part 26: Electromagnetic compatibility requirements	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±4 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz Low CS : 0 kHz ~ 150 kHz MFS : 300 A/m V-DIP : ≤75 A DOW : ±2.5 kV	BS-2	Y
IEC 60533:2015	Electrical and electronic installations in ships - Electromagnetic compatibility (EMC) - Ships with a metallic hull 〈Exception〉 Equipment and installation group F : non - electrical items + equipment	RE : 150 kHz ~ 2 GHz CE : 10 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2 GHz, 10 V/m EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 3 Vrms Low CS : 50 Hz ~ 10 kHz V-DIP : ≤75 A	BS-2	Y
IEC 60601-1-2:2014	Medical electrical equipment - Part 1-2:General requirements for basic safety and essential performance - Collateral standard : Electromagnetic compatibility -Requirements and tests	RE : 150 kHz ~ 1 GHz CE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.5 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 60601-1-2:2014	Medical electrical equipment - Part 1-2 : General requirements for basic safety and essential performance - Collateral standard : Electromagnetic disturbance - Requirements and tests	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : ≤75 A	BS-2	Y
IEC 60601-1-2:2014+AMD1:2020	Medical electrical equipment - Part 1-2 : General requirements for basic safety and essential performance - Collateral standard : Electromagnetic disturbance - Requirements and tests	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 28 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 6 V MFS : 30 A/m V-DIP : 0 %, 0.5 cycle (At 0 °, 45 °, 90 °, 135 °, 180 °, 225 °, 270 °and 315 °) 0 %, 1 cycles (At 0 °) 70 %, 25/30 cycles (50/60) Hz, (At 0 °) 0 %, 250/300 cycles (50/60) Hz	BS-7	N
IEC 60945:2002	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results 〈Exception〉 7.1 Extreme power supply 8 Durability and resistance to environmental conditions Methods of testing and required test results 11 Special purpose tests - Methods of testing and required test results 12 Safety precautions - Methods of testing and required test results(all equipment categories)	CE : 150 kHz ~ 30 MHz RE : 150 kHz ~ 2 GHz ESD : ±8 kV RS : 80 MHz ~ 2 GHz, 10 V/m EFT : ±2 kV Surge : ±1 kV CS : 150 kHz ~ 80 MHz, 10 V V-DIP : ≤75 A	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 60947-1:2020	Low-voltage switchgear and control gear - Part 1 : General rules	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-2	Y
IEC 60947-1:2020	Low-voltage switchgear and controlgear - Part 1 : General rules	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-1	N
IEC 61000-3-11:2017	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 ≤75 A and subject to conditional connection	75 A or less Pst < 1.0 Plt < 0.65 d(t) < 3.3 % dc < 3.3 % dmax : a) < 4 %, b) < 6 %, c) < 7%	BS-1	N
IEC 61000-3-11:2017	Electromagnetic compatibility (EMC) - Part 3-11 : Limits - Limitation of voltage change, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤75 A and subject to conditional connection	AC input current : Max. 75 A (per phase)	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61000-3-11:2017	Electromagnetic compatibility (EMC) - Part 3-11 : Limits - Limitation of voltage change, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤75 A and subject to conditional connection	AC input current : 16 A ~ 75 A 220 V ~ 250 V (L-N)	BS-7	N
IEC 61000-3-12:2011	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 ≤75 A per phase	AC input current : Max. 75 A (per phase)	BS-2	Y
IEC 61000-3-12:2011	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 ≤75 A per phase	AC input current : 16 A ~ 75 A 220 V ~ 240 V (Single phase) 380 V ~ 690 V (Three phase)	BS-7	N
IEC 61000-3-2:2018	Electromagnetic compatibility (EMC) - Part 3-2 : Limits - Limits for harmonic current emissions (equipment input current ≤16 A per Phase)	AC input current : Max. 16 A (per phase)	BS-2	Y
IEC 61000-3-2:2020	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)	16 A or less 40th harmonic	BS-1	N
IEC 61000-3-2:2020	Electromagnetic compatibility (EMC) - Part 3-2 : Limits - Limits for harmonic current emissions (equipment input current ≤16 A per Phase)	AC input current : ≤16 A (Single phase)	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3 : Limits - 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. 16 A (per phase)	BS-2	Y
IEC 61000-3-3:2017	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 less than or equal to 16 A per phase and not subject to conditional connection.	16 A or less Pst < 1.0 Plt < 0.65 d(t) < 500 ms dc < 3.3 % dmax : a) < 4 %, b) < 6 %, c) < 7 %	BS-1	N
IEC 61000-3-3:2017	Electromagnetic compatibility (EMC) - Part 3-3 : Limits - 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-7	N
IEC 61000-4-11:2020	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	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61000-4-11:2020	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips short interruptions and voltage variations immunity tests	16 A per phase or less 0 % during 1/2 cycle 0 % during 1 cycle 40 % during 10/12 cycle 70 % during 25/30 cycle 80 % during 250/300 cycle 0 % during 250/300 cycle	BS-1	Y
IEC 61000-4-11:2020	Electromagnetic compatibility (EMC) - Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	0 %, 0.5 cycle 0 %, 1 cycle 70 %, 25/30 cycles(50/60) Hz 40 %, 10/12 cycles(50/60) Hz 80 %, 250/300 cycles(50/60) Hz 0 %, 250/300 cycles(50/60) Hz	BS-7	N
IEC 61000-4-12:2017	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and Measurement Techniques - Oscillatory Waves Immunity Test	Voltage oscillation frequency : 100 kHz ± 10 % Open-circuit voltage : 250 to 4 kV Short-circuit Current : 333 A ±10 % 12 Ω	BS-1	N
IEC 61000-4-12:2017	Electromagnetic compatibility (EMC) - Part 4-12 : Testing and measurement techniques - Ring wave immunity test	Voltage : ±4 kV	BS-2	Y
IEC 61000-4-13:2015	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	9th harmonic Frequency range : 2 kHz/ 50 Hz, 2.4 kHz/ 60 Hz	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61000-4-13:2015	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 Voltage : U1 × 12 %	BS-2	Y
IEC 61000-4-13:2015	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 Voltage : U1 x 12 %	BS-7	N
IEC 61000-4-14:2009	Electromagnetic Compatibility (EMC) - Part 4-14: Testing and Measurement Techniques - Voltage Fluctuation Immunity Test	Test level : U(nom), U(nom)-10 % U(nom), U(nom)+10 % U(nom)	BS-1	N
IEC 61000-4-14:2009	Electromagnetic compatibility (EMC) - Part 4-14 : Testing and measurement techniques - Voltage fluctuations immunity test for equipment with input current not exceeding 16 A per phase	Voltage : ±12 % Un	BS-2	Y
IEC 61000-4-14:2009	Electromagnetic compatibility (EMC) - Part 4-14 : Testing and measurement techniques - Voltage fluctuations immunity test for equipment with input current not exceeding 16 A per phase	Voltage : ±12 % Un	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61000-4-16:2015	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
IEC 61000-4-16:2015	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	Maximum Voltage : (Continuous field) 30 Vrms (Short persistence) 300 Vrms	BS-2	Y
IEC 61000-4-17:2009	Electromagnetic Compatibility (EMC) - Part 4-17: Testing and Measurement Techniques - Ripple on d.c. Input power Port Immunity Test	Output voltage range : 360 V or less	BS-1	N
IEC 61000-4-17:2009	Electromagnetic compatibility (EMC) - Part 4-17 : Testing and measurement techniques - Ripple on d.c. input power port immunity test	DC input Voltage : 600 V	BS-2	Y
IEC 61000-4-18:2019	Electromagnetic compatibility (EMC) - Part 4-18 : Testing and measurement techniques -Damped oscillatory wave immunity test	Voltage(slow) : ±2.5 kV Voltage(fast) : ±4 kV	BS-2	Y
IEC 61000-4-19:2014	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, 20 V	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61000-4-27:2009	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	Y
IEC 61000-4-28:2009	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	Y
IEC 61000-4-29:2000	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	Y
IEC 61000-4-2:2008	Electromagnetic Compatibility (EMC) - Part 4-2: Testing and Measurement Techniques - Electrostatic Discharge Immunity Test	Max. ±30 kV, 150 ㎊ /330 Ω	BS-1	Y
IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	Voltage : ±30 kV	BS-2	Y
IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	Voltage : ±15 kV	BS-7	N
IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	Max. ±15 kV	BS-6	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61000-4-3:2020	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques -Radiated radio-frequency, electromagnetic field immunity test	Freq. : 80 MHz ~ 18 GHz E/F : 30 V/m	BS-2	Y
IEC 61000-4-3:2020	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	RS : 80 MHz ~ 6 GHz, 10 V/m	BS-1	N
IEC 61000-4-3:2020	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated radio-frequency, electromagnetic field immunity test	Freq. : 80 MHz ~ 18 GHz E/F : 30 V/m	BS-7	N
IEC 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	Voltage : ±5.5 kV	BS-2	Y
IEC 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EFT : ±4 kV	BS-1	Y
IEC 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	Voltage : ±4 kV	BS-7	N
IEC 61000-4-5:2017	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and Measurement Techniques - Surge Immunity Test	SURGE : ±6 kV	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61000-4-5:2017	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge Immunity test	Voltage : ±7 kV	BS-2	Y
IEC 61000-4-5:2017	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge Immunity test	Surge : ±4 kV	BS-7	N
IEC 61000-4-6:2013	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to Conducted Disturbances, Induced by radio-frequency Fields	Freq. : 150 kHz ~ 230 MHz Voltage : 30 V	BS-2	Y
IEC 61000-4-6:2013	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 Voltage : Max. 10 Vrms	BS-1	Y
IEC 61000-4-6:2013	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to Conducted Disturbances, Induced by radio-frequency Fields	Freq. : 150 kHz ~ 230 MHz Voltage : 10 V	BS-7	N
IEC 61000-4-8:2009	Electromagnetic Compatibility (EMC) - Part 4-8: Testing and Measurement Techniques - power Frequency Magnetic Field Immunity Test	M/F : 100 A/m	BS-1	Y
IEC 61000-4-8:2009	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test	Maximum magnetic field : (Continuous field) 100 A/m (Short persistence) 1 000 A/m	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61000-4-8:2009	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test	Maximum magnetic field (continuous field) 100 A/m (Short persistence) 1 000 A/m	BS-7	N
IEC 61000-4-9:2016	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	Electromagnetic compatibility (EMC) - Part 4-9 : Testing and measurement techniques - Pulse magnetic field immunity test	Pulse MFS : 1 000 A/m	BS-2	Y
IEC 61000-4-9:2016	Electromagnetic compatibility (EMC) - Part 4-9 : Testing and measurement techniques - Pulse magnetic field immunity test	Pulse MFS : 1 000 A/m	BS-7	N
IEC 61000-6-1:2016	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : ≤75 A	BS-2	Y
IEC 61000-6-1:2016	Electromagnetic Compatibility (EMC) - Part 6: Generic Standards - Section 1: Immunity for Residential Commercial and Light-Industrial Environments	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61000-6-1:2016	Electromagnetic compatibility (EMC) - Part 6-1 : Generic standards - Immunity for residential, commercial and light-industrial environments	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	Y
IEC 61000-6-2:2016	Electromagnetic Compatibility (EMC) - Part 6-2: Generic Standards - Immunity for Industrial Environments	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 30 A/m V-DIP : 16 A per phase or less	BS-1	Y
IEC 61000-6-2:2016	Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards - Immunity for industrial environments	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : ≤75 A	BS-2	Y
IEC 61000-6-2:2016	Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards - Immunity for industrial environments	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : 0 %, 0.5 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61000-6-3:2020	Electromagnetic compatability (EMC) - Part 6-3: Generic Standards - Emission Standard for equipment in residential environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A	BS-2	Y
IEC 61000-6-3:2020	Electromagnetic compatability (EMC) - Part 6-3: Generic Standards - Emission Standard for equipment in residential environments	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-1	Y
IEC 61000-6-3:2020	Electromagnetic compatibility (EMC) - Part 6-3 : Generic standards - Emission standard for residential, commercial and light-industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz (2-40) Harmonic Flicker : Single phase ≤16 A 3-phase per phase ≤75 A RE : Max. 6 GHz	BS-7	Y
IEC 61000-6-4:2018	Electromagnetic compatibility (EMC) - Part 6-4 : Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 6 GHz RE : 30 MHz ~ 6 GHz	BS-2	Y
IEC 61000-6-4:2018	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-1	Y
IEC 61000-6-4:2018	Electromagnetic compatibility (EMC) - Part 6-4 : Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-7	Y
IEC 61000-6-8:2020	Electromagnetic Compatability (EMC) - Part 6-8 : Generic Standards - Emission Standard for professional equipment in commercial and light-Industrial locations	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61204-3:2016	Low voltage power supplies, d,c. output - Part 3: Electromagnetic Compatibility(EMC)	ESD: ±30 kV RS: Max 10 V/m (80 MHz ~ 2.7 GHz) EFT/Burst: Max 4 kV Surge: Max 6 kV CS: Max 10 V (0.15 MHz ~ 230 MHz) MFS: 30 A/m V-DIP: ≤75 A	BS-2	Y
IEC 61326-1:2012	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 : General requirements	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : Max ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N
IEC 61326-1:2012	Electrical equipment for measurement control and laboratory use - EMC requirements - Part 1: General requirements	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : Max ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MF : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61326-2-1:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-2	Y
IEC 61326-2-1:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ± 8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-1	N
IEC 61326-2-1:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61326-2-2:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-2	Y
IEC 61326-2-2:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N
IEC 61326-2-2:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ± 8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61326-2-3:2012	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	EESD : ±8 kV RS : 80 MHz ~ 3 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : ≤16 A per phase	BS-1	Y
IEC 61326-2-3 :2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N
IEC 61326-2-4:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61326-2-4:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N
IEC 61326-2-4:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ± 8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-1	N
IEC 61326-2-5:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61326-2-5:2012	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 : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N
IEC 61326-2-5:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ± 8 kV RS : 80 MHz~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 3 A/m V-DIP : ≤16 A	BS-1	N
IEC 61326-2-6:2012	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 : Particular requirements - In vitro diagnostic(IVD) medical equipment	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61326-2-6:2012	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 CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : Max ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MF : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y
IEC 61547:2020	Equipment for general lighting purposes - EMC immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y
IEC 61547:2020	Equipment for general lighting purposes - EMC immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : ≤75 A	BS-2	Y
IEC 61547:2020	Equipment for general lighting purposes - EMC immunity requirements	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 70 %, 10 cycles	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61851-21-2:2018	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 CE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz (2-40) Harmonic Flicker : Single phase ≤16 A 3-phase per phase ≤75 A ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V M/F : 30 A/m V-DIP : 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N
IEC 62040-2:2016	Uninterruptible power systems(UPS) - Part 2 : Electromagnetic compatibility (EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : 16 A per phase or less	BS-1	Y
IEC 62040-2:2016	Uninterruptible power systems(UPS) - Part 2 : Electromagnetic compatibility(EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : V-DIP : ≤16 A per phase	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 62040-2:2016	Uninterruptible power systems(UPS) - Part 2 : Electromagnetic compatibility(EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 10 V/m EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m	BS-7	N
IEC 62233:2005	Measurement methods for electromagnetic fields of household appliances and similar apparatus With regard to human exposure	Frequency range : 10 Hz ~ 400 kHz	BS-1	Y
IEC 62233:2005	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	Freq. : 1 Hz ~ 10 GHz	BS-2	Y
IEC 62233:2005	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	Freq. : 1 Hz ~ 10 GHz	BS-7	N
IEC 62236-1:2018	Railway applications - Electromagnetic compatibility - Part 1: General	-	BS-2	Y
IEC 62236-2:2018	Railway applications - Electromagnetic compatibility - Part 2: Emission of whole railway system to the outside world	RE : 9 kHz ~ 1 GHz	BS-2	Y
IEC 62236-3-1:2018	Railway applications - Electromagnetic compatibility - Part 3-1: Rolling stock -Train and complete vehicle	RE : 9 kHz ~ 1 GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 62236-3-2:2018	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz CS : 150 kHz ~ 80 MHz EFT : ±2 kV SURGE : ±2 kV	BS-2	Y
IEC 62236-4:2018	Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz CS : 150 kHz ~ 80 MHz EFT : ±2 kV SURGE : ±2 kV MFS : 300 A/m	BS-2	Y
IEC 62236-5:2018	Railway applications - Electromagnetic compatibility - Part 5: Emission and immunity of the fixed power supply installations and apparatus	CE : 150 kHz ~ 30 MHz RE : 150 kHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz CS : 150 kHz ~ 80 MHz Oscillatory waves : 2.5 kV EFT : ±4 kV SURGE : ±4 kV MFS : 300 A/m	BS-2	Y
IEC 62920:2017	Photovoltaic power generating systems - EMC requirements and test methods for power conversion equipment	CE: 150 kHz ~ 30 MHz RE: 30 MHz ~ 1 GHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV Surge: ±2 kV CS: 150 kHz ~ 80 MHz MFS: 3 A/m V-DIP: ≤75 A	BS-2	Y
IEC CISPR 14-1:2016	Electromagnetic compatibility - Requirements for household appliances electric tools and similar apparatus - Part 1: Emission	CE : 148.5 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DP : 30 MHz ~ 1 GHz RE : 9 kHz ~ 1 GHz	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC CISPR 14-1:2016	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 148.5 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz DCE : 150 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DP : 30 MHz ~ 300 MHz	BS-7	N
IEC CISPR 14-1:2020	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 148.5 kHz ~ 30 MHz RE : 9 kHz ~ 6 GHz DCE : 150 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DP : 30 MHz ~ 300 MHz	BS-2	Y
IEC CISPR 14-2:2015	Electromagnetic Compatibility - Requirements for Household Appliances Electric Tools and Similar Apparatus - Part 2: Immunity - Product Family Standard	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 230 MHz V-DIP : 16 A per phase or less	BS-1	Y
IEC CISPR 14-2:2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity - Product family standard	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 230 MHz, 3 V V-DIP : 0 %, 0.5 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz	BS-7	N
IEC CISPR 16-1-1:2015	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1 : Radio disturbance and immunity measuring apparatus - Measuring apparatus	Freq. : 9 kHz ~ 18 GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC CISPR 16-1-2:2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2 : Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements	Freq. : 9 kHz ~ 1 GHz	BS-2	Y
IEC CISPR 16-1-3:2016	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-3 : Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power	Freq. : 30 MHz ~ 1 GHz	BS-2	Y
IEC CISPR 16-1-4:2019	Specification for radio disturbance and immunity measuring apparatus and methods - 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	Specification for radio disturbance and immunity measuring apparatus and methods - 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	Y
IEC CISPR 16-2-1:2017	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1 : Methods of measurement of disturbances and immunity - Conducted disturbance measurements	Freq. : 9 kHz ~ 1 GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC CISPR 16-2-2:2010	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-2 : Methods of measurement of disturbances and immunity - Measurement of disturbance power	Freq. : 30 MHz ~ 1 GHz	BS-2	Y
IEC CISPR 16-2-3:2016	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3 : Methods of measurement of disturbances and immunity - Radiated disturbance measurements	Freq. : 9 kHz ~ 18 GHz	BS-2	Y
IEC CISPR 16-2-4:2003	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-4 : Methods of measurement of disturbances and immunity - Immunity measurements	Freq. : 9 kHz ~ 18 GHz	BS-2	Y
IEC CISPR 16-3:2015	Specification for radio disturbance and immunity measuring apparatus and methods - Part 3 : CISPR technical reports	-	BS-2	Y
IEC CISPR 16-4-1:2009	Specification for radio disturbance and immunity measuring apparatus and methods - Part 4-1 : Uncertainty, statistics and limit modeling - Uncertainties in standardized EMC tests	-	BS-2	Y
IEC CISPR 16-4-2:2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 4-2 : Uncertainty, statistics and limit modeling -Measurement instrumentation uncertainty	-	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC CISPR 16-4-3:2007	Specification for radio disturbance and immunity measuring apparatus and methods - Part 4-3 : Uncertainty, statistics and limit modeling - Statistical considerations in the determination of EMC compliance of mass-produced products	-	BS-2	Y
IEC CISPR 16-4-4:2017	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	Y
IEEE 299:2006	Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures	Frequency : Max. 18 GHz	BS-2	Y
IEEE 299:2006	Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures	Frequency : Max. 18 GHz	BS-7	Y
IEEE 299:2006	Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures	Frequency range : 9 kHz ~ 18 GHz	BS-1	N
ISO 10605:2008 +A1:2014	Road vehicles - Test methods for electrical disturbances from electrostatic discharge	Voltage : ±25 kV	BS-2	N
ISO 10605:2008+A1: 2014	Road vehicles - Test methods for electrical disturbances from electrostatic discharge	Voltage : ±25 kV	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
ISO 11452-1:2015	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 1 : General principles and terminology	-	BS-7	N
ISO 11452-1:2015	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 1 : General principles and terminology	-	BS-2	N
ISO 11452-2:2019	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2 : Absorber-lined shielded enclosure	Freq. : 80 MHz ~ 18 GHz E/F : 100 V/m	BS-7	N
ISO 11452-2:2019	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2 : Absorber-lined shielded enclosure	Freq. : 80 MHz ~ 18 GHz E/F : 200 V/m	BS-2	Y
ISO 11452-3:2016	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 3: Transverse electromagnetic (TEM) cell	Freq. : 10 kHz ~ 200 MHz E/F : 200 V/m	BS-2	Y
ISO 11452-4:2020	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4 : Harness excitation methods	BCI : 1 MHz ~ 400 MHz, 200 mA TWC : 400 MHz ~ 3 GHz, 33 dBm	BS-7	N
ISO 11452-4:2020	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4 : Harness excitation methods	BCI : 100 kHz ~ 400 MHz, 200 mA TWC : 400 MHz ~ 3 GHz, 33 dBm	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
ISO 11452-7:2003 +A1:2013	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 7 : Direct radio frequency (RF) power injection	Freq. : 1 MHz ~ 400 MHz Power : 0.5 W	BS-2	N
ISO 11452-8:2015	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 8 : Immunity to magnetic fields	Freq. : DC 15 Hz ~ 150 kHz MFS : DC 3 000 A/m, AC 1 000 A/m	BS-7	N
ISO 11452-8:2015	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 8 : Immunity to magnetic fields	Freq. : DC, 15 Hz ~ 150 kHz MFS : DC 25 mT, AC 3 000 A/m	BS-2	N
ISO 11452-9:2012	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 9 : Portable transmitters	Freq. : 26 MHz ~ 5.85 GHz	BS-7	N
ISO 11452-9:2012	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 9: Portable transmitters	Freq. : 26 MHz ~ 5.85 GHz	BS-2	N
ISO 16750-2:2012	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2 : Electrical loads	Freq. : 50 Hz ~ 25 kHz Voltage : -28 V ~ 202 V	BS-2	N
ISO 16750-2:2012	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2 : Electrical loads	Freq. : 50 Hz ~ 25 kHz Voltage : -28 V ~ 202 V	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
ISO 7637-1:2015	Road vehicles - Electrical disturbances from conduction and coupling - Part 1 : Definitions and general considerations	-	BS-7	N
ISO 7637-1:2015	Road vehicles - Electrical disturbances from conduction and coupling - Part 1 : Definitions and general considerations	-	BS-2	N
ISO 7637-2:2011	Road vehicles - Electrical disturbances from conduction and coupling - Part 2 : Electrical transient conduction along supply lines only	TI : -600 V ~ 300 V TE : 1 000 ns ~ 1 000 ms	BS-2	N
ISO 7637-2:2011	Road vehicles - Electrical disturbances from conduction and coupling - Part 2 : Electrical transient conduction along supply lines only	TI : -600 V ~ 300 V TE : 1 000 ns ~ 1 000 ms	BS-7	N
ISO 7637-3:2016	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-7	N
ISO 7637-3:2016	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
JASO D 001:1994	General rules of environmental testing methods for automotive electronic equipment	CE, BCI : Max. 1 GHz RE, RS : Max. 18 GHz	BS-2	N
KN 11:2017	Limits and methods of measurement Industrial, scientific and medical (ISM) radio-frequency equipment	RE : 150 kHz ~ 18 GHz CE : 9 kHz ~ 30 MHz	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
KN 11:2017	Limits and methods of measurement Industrial, scientific and medical (ISM) radio-frequency equipment	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz	BS-2	Y
KN 11:2017	Limits and methods of measurement Industrial, scientific and medical (ISM) radio-frequency equipment	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz (Exclusion : 30 m)	BS-7	Y
KN 14-1:2017	Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 148.5 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DP : 30 MHz ~ 300 MHz RE : 9 kHz ~ 1 GHz	BS-7	N
KN 14-1:2017	Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 148.5 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DP : 30 MHz ~ 1 GHz RE : 9 kHz ~ 1 GHz	BS-2	Y
KN 14-1:2017	Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 148.5 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DP : 30 MHz ~ 1 GHz RE : 9 kHz ~ 1 GHz	BS-1	Y
KN 14-2:2017	Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 230 MHz V-DIP : 16 A per phase or less	BS-1	Y
KN 14-2:2017	Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity	ESD : ±30 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 230 MHz, 3 V V-DIP : ≤16 A per phase	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KN 14-2:2017	Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity	ESD : ±30 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 230 MHz, 3 V V-DIP : 0 %, 0.5 cycle 40 %, 12 cycles 70 %, 30 cycles	BS-7	N
KN 15:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	RE : 9 kHz ~ 300 MHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz IL : 150 kHz ~ 1 605 kHz	BS-1	N
KN 15:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment 〈Exception〉 4.2 Insertion loss 4.4.1 Table 3a -Radiated disturbance limits in the frequency range 9 kHz to 30 MHz (loop diameter : 3 m and 4 m)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz MFE : 9 kHz ~ 30 MHz IL : 150 kHz ~ 1 605 kHz	BS-2	N
KN 15:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment 〈Exception〉 4.2 Insertion loss 4.4.1 Table 3a - Radiated disturbance limits in the frequency range 9 kHz to 30 MHz (loop diameter : 3 m and 4 m)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz MFE : 9 kHz ~ 30 MHz	BS-7	N
KN 16-1-1:2011	Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-1 : Radio disturbance and immunity measuring apparatus-Measuring apparatus	Freq. range : 9 kHz ~ 1.0 GHz	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
KN 16-1-2:2013	Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-2 : Radio disturbance and immunity measuring apparatus - Ancillary equipment - Conducted disturbances	Freq. range : 30 MHz ~ 1.0 GHz	BS-1	Y
KN 16-1-3:2013	Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-3 : Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power	Freq. range : 30 MHz ~ 1.0 GHz	BS-1	Y
KN 16-1-4:2014	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	Freq. range : 9 kHz ~ 18 GHz	BS-1	Y
KN 16-1-5:2014	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	Freq. range : 30 MHz ~ 1.0 GHz	BS-1	Y
KN 16-2-1:2011	Specification for radio disturbance and immunity measuring apparatus and methods-Part 2-1 : Methods of measurement of disturbances and immunity - Conducted disturbance measurements	Freq. range : 9 kHz ~ 1.0 GHz	BS-1	Y
KN 16-2-2:2011	Specification for radio disturbance and immunity measuring apparatus and methods-Part 2-2 : Methods of measurement of disturbances and immunity - Measurement of disturbance power	Freq. range : 30 MHz ~ 1.0 GHz	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
KN 16-2-3:2011	Specification for radio disturbance and immunity measuring apparatus and methods-Part 2-3 : Methods of measurement of disturbances and immunity - Radiated disturbance Measurements	Freq. range : 9 kHz ~ 18 GHz	BS-1	Y
KN 16-2-4:2008	Specification for radio disturbance and immunity measuring apparatus and methods-Part 2-4 : Methods of measurement of disturbances and immunity - Immunity measurements	Freq. range : 150 kHz ~ 2.7 GHz	BS-1	Y
KN 16-2-5:2013	Specification for radio disturbance and immunity measuring apparatus and methods-Part 2-5 : In situ measurement of disturbing emissions produced by physically large equipment	Freq. range : 9 kHz ~ 18 GHz	BS-1	Y
KN 17:2018	Test Methods of radio disturbance for residential wireless power-transmission equipments	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz	BS-1	N
KN 17:2018	Test Methods of radio disturbance for residential wireless power-transmission equipments	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz	BS-7	N
KN 22:2009	Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-2	Y
KN 24:2011	Information technology equipment- Immunity characteristics - Limits and methods of measurement	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 1 A/m V-DIP : ≤75 A SPL : 0.15 MHz ~ 1 GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KN 301 489-13:2008	Test method of EMC for citizens' band (CB) radio and ancillary equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N
KN 301 489-13:2008	Test method of EMC for citizen's band(CB) radio and ancillary equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-15:2009	Test method of EMC for amateur radio equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N
KN 301 489-15:2009	Test method of EMC for amateur radio equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
KN 301 489-17:2013	Test method of EMC for radio equipment of low-output for wireless data transmission system	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N
KN 301 489-17:2013	Test method of EMC for radio equipment of low-output for wireless data transmission system	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-17:2013	Test method of EMC for radio equipment of low-output for wireless data transmission system	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 70 %, 30 cycle 0 %, 300 cycle	BS-7	N
KN 301 489-18:2009	Test method of EMC for radio telecommunication equipment using common frequency	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KN 301 489-18:2009	Test method of EMC for radio telecommunication equipment using common frequency	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-1:2017	Test method of common technical EMC for radio equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤ 75 A H/F : ≤ 75 A TI : -600 V ~ 300 V	BS-1	N
KN 301 489-1:2017	Test method of common technical EMC for radio equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
KN 301 489-1:2017	Test method of common technical EMC for radio equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 70 %, 30 cycle 0 %, 300 cycle	BS-7	N
KN 301 489-20:2009	Test method of EMC for radio equipment for mobile satellite services	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N
KN 301 489-20:2009	Test method of EMC for radio equipment for mobile satellite services	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-24:2008	Test method of EMC for mobile and portable radio and ancillary equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KN 301 489-24:2008	Test method of EMC for mobile and portable radio and ancillary equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-26:2009	Test method of EMC for CDMA 1x spread spectrum base stations, repeaters and ancillary equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-27:2009	Test method of EMC for medical radio equipment implanted in body	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-2:2009	Test method of EMC for radio paging equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KN 301 489-2:2018	Test method of EMC for radio paging equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 70 %, 30 cycle 0 %, 300 cycle	BS-7	N
KN 301 489-3:2008	Test method of EMC for radio equipment of short-range	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 70 %, 30 cycle 0 %, 300 cycle	BS-7	N
KN 301 489-3:2008	Test method of EMC for radio equipment of short-range	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-3:2009	Test method of EMC for radio equipments of short-range	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KN 301 489-5:2008	Test method of EMC for private land mobile radio(PMR) and ancillary equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-5:2009	Test method of EMC for private land mobile radio (PMR) and ancillary equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N
KN 301 489-6:2008	Test method of EMC for digital enhanced cordless telecommunications(DECT) equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-6:2008	Test method of EMC for digital enhanced cordless telecommunications (DECT) equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KN 301 489-7:2008	Test method of EMC for mobile and portable radio telecommunications systems	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-7:2009	Test method of EMC for mobile and portable radio telecommunications systems	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N
KN 301 489-9:2008	Test method of EMC for low-output radio equipment for voice and audio signal transmission	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : 0 % ~ 100 % H/F : ≤75 A TI : -600 V ~ 300 V	BS-2	N
KN 301 489-9:2009	Test method of EMC for low-output radio equipment for voice and audio signal transmission	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KN 32:2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-2	Y
KN 32:2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	CE(Power ports) : 150 kHz ~ 30 MHz CE(signal ports) : 150 MHz ~ 2.15 GHz RE : 30 MHz ~ 6 GHz	BS-7	N
KN 32:2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-1	Y
KN 35:2015	Electromagnetic Compatibility of multimedia equipment - Immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 1 A/m V-DIP : < 5 %, 0.5 cycle 70 %, 30 cycle < 5 %, 300 cycle SPL : 0.15 MHz ~ 1 GHz	BS-7	N
KN 35:2015	Electromagnetic Compatibility of multimedia equipment - Immunity requirements	AC or DC nominal supply Voltage : 600 V	BS-2	Y
KN 35:2015	Electromagnetic Compatibility of multimedia equipment - Immunity equipments	AC or DC norminal supply voltage : 600 V	BS-1	Y
KN 60601-1-2:2008	Medical electrical equipment - Part 1-2 : General requirements for basic safety and essential performance - Collateral standard : Electromagnetic compatibility - Requirements and tests	RE : 150 kHz ~ 1 GHz CE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.5 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
KN 60601-1-2:2008	Medical electrical equipment - Part 1-2 : General requirements for basic safety and essential performance - Collateral standard : Electromagnetic compatibility - Requirements and tests	RE : 150 kHz ~ 1 GHz CE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 28 V/m EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V M/F : 3 A/m V-DIP : 〈5 %, 0.5 cycle 40 %, 5 cycle 70 %, 25 cycle 〈5 %, 300 cycle	BS-7	N
KN 60974-10:2017	Test method of EMC for arc welding equipment	RE : 30 MHz ~ 1 GHz CE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V V-DIP : 30 %, 0.5 cycle 60 %, 5 cycle	BS-7	N
KN 60974-10:2017	Test method of EMC for arc welding equipment	RE : 30 MHz ~ 18 GHz CE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz V-DIP : 16 A per phase or less	BS-1	Y
KN 60:2008	Conformity Assessment Procedure for Interface of Power Line Communication Equipment	CE : 150 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KN 61000-4-11:2008	Voltage dips, short interruptions and voltage variations immunity tests	AC input current : Max. 16 A (per phase)	BS-2	Y
KN 61000-4-11:2013	Electromagnetic compatibility (EMC) - Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	16 A per phase or less 0 % during 1/2 cycle 0 % during 1 cycle 40 % during 1/12 cycle 70 % during 1/30 cycle 80 % during 1/300 cycle 0 % during 1/300 cycle	BS-1	Y
KN 61000-4-11:2013	Voltage dips, short interruptions and voltage variations immunity tests	V-DIP : 0 %, 0.5 cycle 40 %, 5 cycle 70 %, 25 cycle 0 %, 300 cycle	BS-7	N
KN 61000-4-2:2013	Electrostatic discharge immunity test	Voltage : ±15 kV	BS-7	N
KN 61000-4-2:2013	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	Voltage : ±30 kV	BS-2	Y
KN 61000-4-2:2013	Electromagnetic compatibility(EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	Max. ±30 kV, 150 pF /330 Ω	BS-1	Y
KN 61000-4-3:2011	Electromagnetic compatibility(EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	RS : 80 MHz ~ 6 GHz, 10 V/m	BS-1	N
KN 61000-4-3:2011	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	Freq. : 80 MHz ~ 18 GHz E/F : 30 V/m	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KN 61000-4-3:2011	Radiated, radio-frequency, electromagnetic field immunity test	Freq. : 80 MHz ~ 6 GHz E/F : 30 V/m	BS-7	N
KN 61000-4-4:2011	Electrical fast transient/burst immunity test	Voltage : ±4 kV	BS-7	N
KN 61000-4-4:2011	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	Voltage : ±5.5 kV	BS-2	Y
KN 61000-4-4:2011	Electromagnetic compatibility(EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	EFT : ±4 kV	BS-1	Y
KN 61000-4-5:2008	Electromagnetic compatibility(EMC) - Part 4-5 : Testing and measurement techniques - Surge immunity test	SURGE : ±6 kV	BS-1	Y
KN 61000-4-5:2008	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge Immunity Test	Voltage : ±7 kV	BS-2	Y
KN 61000-4-5:2008	Surge Immunity Test	Voltage : ±4 kV	BS-7	N
KN 61000-4-6:2013	Immunity to Conducted Disturbances, Induced by Radio- Frequency Fields	Freq. : 150 kHz ~ 230 MHz Voltage : 10 V	BS-7	N
KN 61000-4-6:2013	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to Conducted Disturbances, Induced by Radio- Frequency Fields	Freq. : 150 kHz ~ 230 MHz Voltage : 30 V	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KN 61000-4-6:2013	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 Voltage : Max. 10 Vrms	BS-1	Y
KN 61000-4-8:2013	Electromagnetic compatibility(EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test	M/F : 100 A/m	BS-1	Y
KN 61000-4-8:2013	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test	Maximum Magnetic field : (Continuous field) 100 A/m (Short persistence) 1 000 A/m	BS-2	Y
KN 61000-4-8:2013	Power frequency magnetic field immunity test	Maximum magnetic field (continuous field) 100 A/m (Short persistence) 1 000 A/m	BS-7	N
KN 61000-4-9 : 2017	Pulse magnetic field immunity test	Output current range 100 A/m ~ 1 000 A/m	BS-7	N
KN 61000-4-9:2017	Pulse magnetic field immunity test	Output current range : 100 A/m ~ 1 000 A/m	BS-1	N
KN 61000-6-1 : 2017	Immunity for residential, commercial and light-industrial environments Electromagnetic compatibility(EMC) - Part 6-1 : Generic standards	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V M/F : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 70 %, 30 cycle 0 %, 300 cycle	BS-7	Y

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Test method	Standard designation	Test range	Site	Field testing
KN 61000-6-1:2017	Immunity for residential, commercial and light-industrial environments Electromagnetic compatibility(EMC) - Part 6-1 : Generic standards	ESD : ±8 kV RS : 80 MHz ~ 6 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V M/F : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y
KN 61000-6-2:2017	Immunity for industrial environments Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards	ESD : ±8 kV RS : 80 MHz ~ 6 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V M/F : 30 A/m V-DIP : 16 A per phase or less	BS-1	Y
KN 61000-6-2:2017	Immunity for industrial environments Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V M/F : 30 A/m V-DIP : 0 %, 1 cycle 40 %, 12 cycle 70 %, 30 cycle 0 %, 300 cycle	BS-7	Y
KN 61000-6-3:2012	Emission standard for residential, commercial and light-industrial environments Electromagnetic compatibility (EMC) - Part 6-3 : Generic standards	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-1	Y
KN 61000-6-3:2012	Emission standard for residential, commercial and light-industrial environments Electromagnetic compatibility (EMC) - Part 6-3 : Generic standards	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-7	Y
KN 61000-6-4:2012	Emission standard for industrial environments Electromagnetic compatibility (EMC) - Part 6-4 : Generic standards	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
KN 61000-6-4:2012	Emission standard for industrial environments Electromagnetic compatibility (EMC) - Part 6-4 : Generic standards	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-7	Y
KN 61547:2012	Equipment for general lighting purposes	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y
KN 61547:2012	Equipment for general lighting purposes	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V M/F : 3 A/m V-DIP : 70 %, 12 cycle 0 %, 0.5 cycle	BS-7	N
KN 62040-2:2012	Uninterruptible power systems (UPS) - Part 3 : Method of specifying the performance and test requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz	BS-1	Y
KN 62040-2:2012	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 10 V/m EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
KN 62040-2:2012	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : ≤16 A per phase	BS-2	Y
KS B 6945:2015	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors - Immunity 〈Exception〉 Equipment more than rated input current 63 A	ESD : ±15 kV RS : 80 MHz ~ 2.675 GHz, 30 V/m EFT : ±4 kV Surge : ±2.5 kV CS : 0.15 MHz ~ 80 MHz, 10 V V-DIP : ≤ 75 A	BS-2	Y
KS B 6955:2015	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors - Emission 〈Exception〉 Equipment more than rated input current 63 A	AC input current : Max. 200 A (per phase)	BS-2	Y
KS C 0262:2014	Electromagnetic compatibility(EMC) - Methods of measurement 〈Exception〉 KS C CISPR 13, KS C CISPR 15, KS C CISPR 20	CE, CS : Max. 1 GHz RE, RS : Max. 18 GHz	BS-2	Y
KS C 0262:2014	Electromagnetic compatibility (EMC) - Methods of measurement	-	BS-1	Y
KS C 9040-2:2017	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C 9040-2:2017	Uninterruptible power systems(UPS) - Part2 : Electromagnetic compatibility(EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V	BS-7	N
KS C 9040-2:2017	Uninterruptible power systems(UPS) - Part 2 : Electromagnetic compatibility(EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz	BS-1	Y
KS C 9547:2020 (MOD IEC 61547:2009)	Equipment for general lighting purposes - EMC immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : ≤75 A	BS-1	N
KS C 9547:2020 (MOD IEC 61547:2009)	Equipment for general lighting purposes - EMC immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : ≤75 A	BS-2	Y
KS C 9547:2020 (MOD IEC 61547:2009)	Equipment for general lighting purposes - EMC immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : 70 %, 12 cycle 0 %, 0.5 cycle	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
KS C 9610-3-11:2017	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 ≤ 75 A and subject to conditional connection	AC input current : 16 A ~ 75 A 220 V ~ 250 V (L-N)	BS-7	N
KS C 9610-3-11:2017 (MOD IEC 61000-3-11:2000)	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 ≤75 A and subject to conditional connection	AC input current : Max. 75 A (per phase)	BS-2	Y
KS C 9610-3-11:2017 (MOD IEC 61000-3-11:2000)	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 ≤75 A and subject to conditional connection	AC input current : Max 75 A (per phase)	BS-1	N
KS C 9610-3-12:2017	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 ≤75 A per phase	AC input current : Max. 75 A (per phase)	BS-2	Y
KS C 9610-3-12:2017	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 ≤ 75 A per phase	AC input current : 16 A ~ 75 A 220 V ~ 240 V (Single phase) 380 V ~ 690 V (Three phase)	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
KS C 9610-3-2:2020 (MOD IEC 61000-3-2:2009)	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)	AC input current : ≤16 A (Single phase)	BS-7	N
KS C 9610-3-2:2020 (MOD IEC 61000-3-2:2009)	Electromagnetic compatibility(EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)	AC input current : Max. 16 A (per phase)	BS-2	Y
KS C 9610-3-2:2020 (MOD IEC 61000-3-2:2009)	Electromagnetic compatibility(EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)	AC input current : Max 16 A (per phase)	BS-1	N
KS C 9610-3-3:2020 (MOD IEC 61000-3-3:2013)	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 ≤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 (MOD IEC 61000-3-3:2013)	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 ≤16 A per phase and not subject to conditional connection	AC input current : Max. 16 A (per phase)	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C 9610-3-3:2020 (MOD IEC 61000-3-3:2013)	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 ≤16 A per phase and not subject to conditional connection	AC input current : ≤16 A (Single phase)	BS-7	N
KS C 9610-4-11:2020 (MOD IEC 61000-4-11:2004)	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	0 %, 0.5 cycle 0 %, 1 cycle 70 %, 30 cycle 40 %, 12 cycle 80 %, 300 cycle 0 %, 300 cycle	BS-7	N
KS C 9610-4-11:2020 (MOD IEC 61000-4-11:2004)	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	Y
KS C 9610-4-11:2020 (MOD IEC 61000-4-11:2004)	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	Y
KS C 9610-4-2:2017	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	Voltage : Max. 15 kV	BS-7	N
KS C 9610-4-2:2017 (MOD IEC 61000-4-2:2008)	Electromagnetic compatibility(EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	Voltage : Max. 30 kV	BS-1	Y
KS C 9610-4-2:2017 (MOD IEC 61000-4-2:2008)	Electromagnetic compatibility(EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	Voltage : Max. 30 kV	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C 9610-4-3:2017	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field	Freq. : 80 MHz ~ 6 GHz E/F : 10 V/m	BS-7	N
KS C 9610-4-3:2017 (MOD IEC 61000-4-3:2010)	Electromagnetic compatibility(EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	Freq. : 80 MHz ~ 6 GHz E/F : 10 V/m	BS-2	Y
KS C 9610-4-3:2017 (MOD IEC 61000-4-3:2010)	Electromagnetic compatibility(EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	Freq. : 80 MHz ~ 6 GHz E/F : 10 V/m	BS-1	N
KS C 9610-4-4:2020 (MOD IEC 61000-4-4:2012)	Electromagnetic compatibility(EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	Voltage : Max. 5.5 kV	BS-1	Y
KS C 9610-4-4:2020 (MOD IEC 61000-4-4:2012)	Electromagnetic compatibility(EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	Voltage : Max. 5.5 kV	BS-2	Y
KS C 9610-4-4:2020 (MOD IEC 61000-4-4:2012)	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	Voltage : Max. 4 kV	BS-7	N
KS C 9610-4-5:2020 (MOD IEC 61000-4-5:2014)	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	Voltage : ±4 kV	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
KS C 9610-4-5:2020 (MOD IEC 61000-4-5:2014)	Electromagnetic compatibility(EMC) - Part 4-5: Testing and measurement techniques - Surge Immunity Test	Voltage : ±7 kV	BS-2	Y
KS C 9610-4-5:2020 (MOD IEC 61000-4-5:2014)	Electromagnetic compatibility(EMC) - Part 4-5: Testing and measurement techniques - Surge Immunity Test	Voltage : ±7 kV	BS-1	Y
KS C 9610-4-6:2020 (MOD IEC 61000-4-6:2013)	Electromagnetic compatibility(EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	Freq. : 150 kHz ~ 230 MHz Voltage : 30 V	BS-1	Y
KS C 9610-4-6:2020 (MOD IEC 61000-4-6:2013)	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	Freq. : 150 kHz ~ 230 MHz Voltage : 10 V	BS-7	N
KS C 9610-4-6:2020 (MOD IEC 61000-4-6:2013)	Electromagnetic compatibility(EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	Freq. : 150 kHz ~ 230 MHz Voltage : 30 V	BS-2	Y
KS C 9610-4-8:2017	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	Maximum magnetic field (continuous field) 100 A/m (Short persistence) 1 000 A/m	BS-7	N
KS C 9610-4-8:2017 (MOD IEC 61000-4-8:2009)	Electromagnetic compatibility(EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	maximum Magnetic field : (continuous field) 100 A/m (short persistence) 1 000 A/m	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C 9610-4-8:2017 (MOD IEC 61000-4-8:2009)	Electromagnetic compatibility(EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	Maximum Magnetic field : (Continuous field) 100 A/m (Short persistence) 1 000 A/m	BS-2	Y
KS C 9610-4-9:2019	Electromagnetic compatibility(EMC) — Part 4-9: Testing and measurement techniques — Impulse magnetic field immunity test	Pulse MFS : 1 000 A/m	BS-1	Y
KS C 9610-4-9:2019	Electromagnetic compatibility(EMC) - Part 4-9: Testing and measurement techniques - Impulse magnetic field immunity test	Pulse MFS : 1 000 A/m	BS-2	Y
KS C 9610-4-9:2019	Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques - Impulse magnetic field immunity test	magnetic field : 1 000 A/m	BS-7	N
KS C 9610-6-1:2017	Immunity for residential, commercial and light-industrial environments EMC	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : ≤75 A	BS-1	Y
KS C 9610-6-1:2017	Immunity for residential, commercial and light-industrial environments EMC	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : ≤75 A	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C 9610-6-1:2019	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 3 V/m EFT : ±1 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 3 V MFS : 3 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 70 %, 30 cycle 0 %, 300 cycle	BS-7	Y
KS C 9610-6-2:2017	Immunity for industrial environments EMC	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 3 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : ≤75 A	BS-1	Y
KS C 9610-6-2:2017	Immunity for industrial environments EMC	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : ≤75 A	BS-2	Y
KS C 9610-6-2:2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : 0 %, 1 cycle 40 %, 12 cycle 70 %, 30 cycle 0 %, 300 cycle	BS-7	Y
KS C 9610-6-3:2017	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-7	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C 9610-6-3:2017 (MOD IEC 61000-6-3:2011)	Electromagnetic compatibility(EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light- industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A	BS-1	Y
KS C 9610-6-3:2017 (MOD IEC 61000-6-3:2011)	Electromagnetic compatibility(EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light- industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz H/F : ≤75 A	BS-2	Y
KS C 9610-6-4:2017	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-7	Y
KS C 9610-6-4:2017 (MOD IEC 61000-6-4:2011)	Electromagnetic compatibility(EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-1	Y
KS C 9610-6-4:2017 (MOD IEC 61000-6-4:2011)	Electromagnetic compatibility(EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-2	Y
KS C 9811:2019	Industrial, scientific and medical equipment — Radio-frequency disturbance characteristics — Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz MFE : 9 kHz ~ 30 MHz RE : Max 18 GHz	BS-2	Y
KS C 9811:2019	Industrial, scientific and medical equipment — Radio-frequency disturbance characteristics — Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz MFE : 9 kHz ~ 30 MHz RE : Max 18 GHz	BS-1	Y
KS C 9811:2019	Industrial, scientific and medical equipment — Radio-frequency disturbance characteristics — Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 150 kHz ~ 18 GHz (Exclusion : 30 m)	BS-7	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C 9814-1:2019	Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 1: Emission	CE : 148.5 kHz ~ 30 MHz DP : 30 MHz ~ 300 MHz RE : 30 MHz ~ 1 GHz	BS-1	Y
KS C 9814-1:2019	Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 1: Emission	CE : 148.5 kHz ~ 30 MHz DP : 30 MHz ~ 300 MHz RE : 30 MHz ~ 1 GHz	BS-7	N
KS C 9814-1:2019	Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 1: Emission	CE : 148.5 kHz ~ 30 MHz DP : 30 MHz ~ 300 MHz RE : 30 MHz ~ 1 GHz	BS-2	Y
KS C 9814-2:2019	Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 2 : Immunity	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 230 MHz, 3 V V-DIP : ≤75 A	BS-1	Y
KS C 9814-2:2019	Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 2 : Immunity	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 230 MHz, 3 V V-DIP : 0 %, 0.5 cycle 40 %, 12 cycle 70 %, 30 cycle	BS-7	N
KS C 9814-2:2019	Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 2 : Immunity	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 230 MHz, 3 V V-DIP : ≤75 A	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C 9815:2019	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment 〈Exception〉 4.2 Insertion loss 4.4.1 Table 3a - Radiated disturbance limits in the frequency range 9 kHz to 30 MHz (loop diameter : 3 m and 4 m)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz MFE : 9 kHz ~ 30 MHz	BS-2	Y
KS C 9815:2019	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment 〈Exception〉 4.2 Insertion loss 4.4.1 Table 3a - Radiated disturbance limits in the frequency range 9 kHz to 30 MHz (loop diameter : 3 m and 4 m)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz MFE : 9 kHz ~ 30 MHz	BS-1	N
KS C 9815:2019	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment 〈Exception〉 4.2 Insertion loss 4.4.1 Table 3a - Radiated disturbance limits in the frequency range 9 kHz to 30 MHz (loop diameter : 3 m and 4 m)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz MFE : 9 kHz ~ 30 MHz	BS-7	N
KS C 9832:2019	Electromagnetic compatibility of multimedia equipment - Emission requirements	CE(power ports) : 150 kHz ~ 30 MHz CE(signal ports) : 150 MHz ~ 2.15 GHz RE : 30 MHz ~ 6 GHz	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
KS C 9835:2019	Electromagnetic Compatibility of multimedia equipment - Immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 1 A/m V-DIP : < 5 %, 0.5 cycle 70 %, 30 cycle < 5 %, 300 cycle SPL : 0.15 MHz ~ 1 GHz	BS-7	N
KS C 9990:2017	Vehicles and internal combustion engine driven equipment Electromagnetic compatibility (EMC) test method	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz BCI : 20 MHz ~ 400 MHz, 60 mA RI : 80 MHz ~ 2 GHz, 30 V/m TI : -450 V ~ 150 V TE : 1 000 ns ~ 1 000 ms EFT : ±2 kV Surge : ±2 kV AC input current : ≤16 A (Single phase) 16 A ~ 75 A (Three phase)	BS-7	N
KS C 9990:2017	Vehicles and internal combustion engine driven equipment Electromagnetic compatibility (EMC) test method	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz BCI : 20 MHz ~ 400 MHz, 60 mA RI : 80 MHz ~ 2 GHz, 30 V/m TI : -450 V ~ 150 V TE : 1 000 ns ~ 1 000 ms EFT : ±2 kV Surge : ±2 kV HF : ≤ 64 A	BS-2	Y

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

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Test method	Standard designation	Test range	Site	Field testing
KS C CISPR 25:2011	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limit and methods of measurement for the protection of on-board receivers 〈Exception〉 Section 5 : Measurement of emissions received by an antenna on the same vehicle Section 6 : 5 ~ 6. Radiated emissions form components/modules - TEM cell method, Stripline method	CE : 150 kHz ~ 108 MHz RE : 150 kHz ~ 2.5 GHz	BS-2	Y
KS C CISPR 25:2017	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limit and methods of measurement for the protection of on-board receivers 〈Exception〉 Section 5 : Measurement of emissions received by an antenna on the same vehicle Section 6 : 5 ~ 6. Radiated emissions form components/modules - TEM cell method, Stripline method	CE-V : 150 kHz ~ 108 MHz CE-S : 150 kHz ~ 245 MHz RE : 150 kHz ~ 2.5 GHz	BS-7	N
KS C IEC 61000-4-13:2010	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 Frequency range : 2 kHz / 50 Hz, 2.4 kHz / 60 Hz	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60255-26:2015	Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements	RE : 30 MHz~ 6 GHz CE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±4 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz Low CS : 0 kHz ~ 150 kHz MFS : 300 A/m V-DIP : ≤75 A DOW : ±2.5 kV	BS-2	Y
KS C IEC 60533:2003	Electrical and electronic installation in ships - Electromagnetic compatibility 〈Exception〉 Equipment and installation group F : non-electrical items + equipment	CE : 10 kHz ~ 30 MHz RE : 150 kHz ~ 2 GHz ESD : ±8 kV RS : 80 MHz ~ 2 GHz, 10 V/m EFT : ±2 kV Surge : ±1 kV CS : 150 kHz ~ 80 MHz, 3 V V-DIP : ≤75 A Low CS : 50 Hz ~ 10 kHz	BS-2	Y
KS C IEC 60601-1-2:2014	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 RE : 150 kHz ~ 18 GHz ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 28 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 6 V MFS : 30 A/m V-DIP : 0 %, 0.5 cycle (At 0 °, 45 °, 90 °, 135 °, 180 °, 225 °, 270 °and 315 °) 0 %, 1 cycles (At 0 °) 70 %, 25/30 cycles (50/60) Hz, (At 0 °) Voltage interruptions : 0 %, 250/300 cycles (50/60) Hz	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60601-1-2:2014	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 RE : 150 kHz ~ 18 GHz ESD : ±15 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : ≤75 A	BS-2	Y
KS C IEC 60601-1-2:2014	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 RE : 150 kHz ~ 18 GHz ESD : ±8 kV RS : 80 MHz ~ 2.5 GHz, 10 V/m EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : ≤75 A	BS-1	Y
KS C IEC 60947-1:2014	Low-voltage switchgear and controlgear - Part 1 : General rules 7.3 Electromagnetic compatibility(EMC)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 6 GHz MFE : 9 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : ≤75 A	BS-1	N
KS C IEC 60947-1:2014	Low-voltage switchgear and controlgear - Part 1 : General rules 7.3 Electromagnetic compatibility(EMC)	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 6 GHz MFE : 9 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : ≤75 A	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 61000-3-12:2013	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 ≤75 A per phase	AC input current : Max. 75 A (per phase)	BS-2	Y
KS C IEC 61000-4-12:2008	Electromagnetic Compatibility (EMC) - Part 4-12 : Testing and Measurement Techniques - Oscillatory Waves Immunity Test	Voltage oscillation frequency : 100 kHz ± 10 % Open-circuit voltage : 250 to 4 kV Short-circuit Current :333 A ± 10 % 12 Ω	BS-1	N
KS C IEC 61000-4-12:2008	Electromagnetic compatibility(EMC) - Part 4-12 : Testing and measurement techniques - Ring wave immunity test	Voltage : ±4 kV	BS-2	Y
KS C IEC 61000-4-13:2010	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 Voltage : U1 × 12 %	BS-2	Y
KS C IEC 61000-4-13:2010	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 Voltage : U1 x 12 %	BS-7	N
KS C IEC 61000-4-14:2010	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), U(nom)-10 % U(nom), U(nom)+10 % U(nom)	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 61000-4-14:2010	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 : ±12 % Un	BS-7	N
KS C IEC 61000-4-14:2010	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 : ±12 % Un	BS-2	Y
KS C IEC 61000-4-16:2013	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 61000-4-17:2010	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	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	Y
KS C IEC 61000-4-27:2014	Electromagnetic compatibility(EMC) - Part 4-27 : Testing and measurement techniques - Unbalance, immunity test	AC input current : Max. 16 A (per phase)	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 61000-4-28:2010	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	Y
KS C IEC 61326-1:2008	Electrical equipment for measurement, control and laboratory use - EMC requirements	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : Max ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-DIP : 16 A per phase or less	BS-1	Y
KS C IEC 61326-1:2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : Max ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : 0 %, 0.5 cycle 0 %, 1 cycle 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 62040-2:2008	Uninterruptible power systems (UPS) Part 2: Electromagnetic compatibility (EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V	BS-7	N
KS C IEC 62233:2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	Frequency range : 10 Hz ~ 400 kHz	BS-1	Y
KS C IEC 62236-1:2011	Railway applications - Electromagnetic compatibility - Part 1 : General	-	BS-2	Y
KS C IEC 62236-2:2011	Railway applications - Electromagnetic compatibility - Part 2 : Emission of the whole railway system to the outside world	RE : 9 kHz ~ 1 GHz	BS-2	Y
KS C IEC 62236-3-1:2011	Railway applications - Electromagnetic compatibility - Part 3 - 1 : Rolling stock - Train and complete vehicle	RE : 9 kHz ~ 1 GHz	BS-2	Y
KS C IEC 62236-3-2:2011	Railway applications - Electromagnetic compatibility - Part 3 - 2 : Rolling stock - Apparatus	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 2.5 GHz CS : 150 kHz ~ 80 MHz EFT : ±2 kV SURGE : ±2 kV	BS-2	Y
KS C IEC 62236-4:2011	Railway applications - Electromagnetic compatibility - Part 4 : Emission and immunity of the signalling and telecommunications apparatus	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 2.5 GHz CS : 150 kHz ~ 80 MHz EFT : ±2 kV SURGE : ±2 kV MFS : 300 A/m	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 62236-5:2011	Railway applications - Electromagnetic compatibility - Part 5 : Emission and immunity of fixed power supply installations and apparatus	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 2.5 GHz CS : 150 kHz ~ 80 MHz EFT : ±4 kV SURGE : ±4 kV MFS : 300 A/m	BS-2	Y
KS R IEC 61851-21-2:2019	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 CE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz (2-40) Harmonic Flicker : Single phase ≤16 A 3-phase per phase ≤75 A ESD : ±8 ㎸ RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 ㎸ SURGE : ±2 ㎸ CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : 0 %, 1 cycle 40 %, 10/12 cycles (50/60) Hz 70 %, 25/30 cycles (50/60) Hz 0 %, 250/300 cycles (50/60) Hz	BS-7	N
KS R ISO 11452-1:2013	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 1 : General principles and terminology	-	BS-7	N
KS R ISO 11452-1:2013	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 1 : General principles and terminology	-	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
KS R ISO 11452-2:2013	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2 : Absorber-lined shielded enclosure	Freq. : 80 MHz ~ 18 GHz E/F : 200 V/m	BS-2	N
KS R ISO 11452-2:2013	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2 : Absorber-lined shielded enclosure	Freq. : 80 MHz ~ 18 GHz E/F : 100 V/m	BS-7	N
KS R ISO 11452-4:2013	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 TWC : 400 MHz ~ 3 GHz, 33 dBm	BS-7	N
KS R ISO 11452-4:2013	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 TWC : 400 MHz ~ 3 GHz, 33 dBm	BS-2	N
KS R ISO 11452-8:2013	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 8: Immunity to magnetic fields	Freq. : 15 Hz ~ 150 kHz M/F : AC 3 000 A/m	BS-7	N
KS R ISO 11452-9:2012	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 9: Portable transmitters	Freq. : 26 MHz ~ 5.85 GHz	BS-7	N
KS R ISO 7637-1:2015	Road vehicles - Electrical disturbances from conduction and coupling - Part 1 : Definitions and general considerations	-	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
KS R ISO 7637-1:2015	Road vehicles - Electrical disturbances from conduction and coupling - Part 1 : Definitions and general considerations	-	BS-2	N
KS R ISO 7637-2:2015	Road vehicles - Electrical disturbances from conduction and coupling - Part 2 : Electrical transient conduction along supply lines only	TI : -600 V ~ 300 V TE : 1 000 ns ~ 1 000 ms	BS-2	N
KS R ISO 7637-2:2015	Road vehicles - Electrical disturbances from conduction and coupling - Part 2 : Electrical transient conduction along supply lines only	TI : -600 V ~ 300 V TE : 1 000 ns ~ 1 000 ms	BS-7	N
KS R ISO 7637-3:2015	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-7	N
KS R ISO 7637-3:2015	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
MIL-PRF-15733 (2007; Rev H)	Filters and Capacitors, Radio Frequency Interference, General Specification for 4.6.8 Voltage Drop 4.6.9 Insertion Loss 4.6.10 Overload	PCI : 5 000 A or less Supply capacity : 200 A or less	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
MIL-STD-188-125-1:2005	High-altitude electromagnetic pulse(HEMP) protection for ground-based C4I facilities performing critical, time-urgent missions Part 1 Fixed facilities <Exception> Long pulse of Appendix B, 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) Max applied Current(PCI) : Max. 5 000 A, ≤ 20 ns, 500 ~ 550 ns	BS-2	Y
MIL-STD-188-125-2:2005	High-altitude electromagnetic pulse(HEMP) protection for ground-based C4I facilities performing critical, time-urgent missions Part 1 Transportable Systems <Exception> 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) Max applied Current(PCI) : Max. 5 000 A, ≤ 20 ns, 500 ~ 550 ns	BS-2	Y
MIL-STD-220C:2009	Test Method Standard - Method of insertion Loss Measurement	Frequency : Max. 10GHz	BS-2	Y
MIL-STD-285:1956	Attenuation Measurements for Enclosures, Electromagnetic Shielding, for Electronic Test Purposes, Method of	Frequency : Max. 10GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
MIL-STD-461D: 1993	DEPARTMENT OF DEFENSE INTERFACE STANDARD REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE EMISSIONS AND SUSCEPTIBILITY 5.3.1 CE101 conducted emissions power leads 30 Hz to 10 kHz 5.3.2 CE102 conducted emissions power leads 10 kHz to 10 MHz 5.3.4 CS101 conducted susceptibility power leads 30 Hz to 50 kHz 5.3.9 CS114 conducted susceptibility bulk cable injection 10 kHz to 400 MHz 5.3.10 CS115 conducted susceptibility bulk cable injection impulse excitation 5.3.11 CS116 conducted susceptibility damped sinusoidal transients 10 kHz to 100 MHz 5.3.12 RE101 radiated emissions magnetic field 30 Hz to 100 kHz 5.3.13 RE102 radiated emissions electric field 10 kHz to 18 GHz 5.3.15 RS101 radiated susceptibility magnetic field 30 Hz to 100 kHz 5.3.16 RS103 radiated susceptibility electric field 10 kHz to 40 GHz 〈Exception〉 10 kHz to 100 MHz, 200 V/m, 1 m distance	30 Hz ~ 10 kHz 10 kHz ~ 10 MHz 30 Hz ~ 50 kHz 10 kHz ~ 400 MHz Impulse 5 A 10 kHz ~ 100 MHz 30 Hz ~ 100 kHz 10 kHz ~ 18 GHz 30 Hz ~ 100 kHz 10 kHz ~ 18 GHz Max. 200 V/m	BS-6	N

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

No. KT009

Test method	Standard designation	Test range	Site	Field testing
MIL-STD-461E: 1999	DEPARTMENT OF DEFENSE INTERFACE STANDARD REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT 5.4 CE101 conducted emissions power leads 30 Hz to 10 kHz 5.5 CE102 conducted emissions power leads 10 kHz to 10 MHz 5.7 CS101 conducted susceptibility power leads 30 Hz to 150 kHz 5.12 CS114 conducted susceptibility bulk cable injection 10 kHz to 200 MHz 5.13 CS115 conducted susceptibility bulk cable injection impulse excitation 5.14 CS116 conducted susceptibility damped sinusoidal transients cable and power leads 10 kHz to 100 MHz 5.15 RE101 radiated emissions magnetic field 30 Hz to 100 kHz 5.16 RE102 radiated emissions electric field 10 kHz to 18 GHz 5.18 RS101 radiated susceptibility magnetic field 30 Hz to 100 kHz 5.19 RS103 radiated susceptibility electric field 2 MHz to 40 GHz 〈Exception〉 - 2 MHz to 100 MHz, 200 V/m, 1 m distance - 5.19.4 RS103 alternative test procedures -reverberation chamber (mode-tuned)	30 Hz to 10 kHz 10 kHz to 10 MHz 30 Hz to 150 kHz 10 kHz to 200 MHz Impulse 5 A 10 kHz to 100 MHz 30 Hz to 100 kHz 10 kHz to 18 GHz 30 Hz to 100 kHz 2 MHz to 18 GHz Max. 200 V/m	BS-6	N

No. KT009

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

No. KT009

Test method	Standard designation	Test range	Site	Field testing
MIL-STD-461F: 2007	DEPARTMENT OF DEFENSE INTERFACE STANDARD REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT 5.4 CE101 conducted emissions power leads 30 Hz to 10 kHz 5.5 CE102 conducted emissions power leads 10 kHz to 10 MHz 5.7 CS101 conducted susceptibility power leads 30 Hz to 150 kHz 5.11 CS106 conducted susceptibility transients power leads 5.13 CS114 conducted susceptibility bulk cable injection 10 kHz to 200 MHz 5.14 CS115 conducted susceptibility bulk cable injection impulse excitation 5.15 CS116 conducted susceptibility damped sinusoidal transients cable and power leads 10 kHz to 100 MHz 5.16 RE101 radiated emissions magnetic field 30 Hz to 100 kHz 5.17 RE102 radiated emissions electric field 10 kHz to 18 GHz 5.19 RS101 radiated susceptibility magnetic field 30 Hz to 100 kHz 5.20 RS103 radiated susceptibility electric field 2 MHz to 40 GHz 〈Exception〉 - 2 MHz to 100 MHz, 200 V/m, 1 m distance - 5.20.4 RS103 alternative test procedures - reverberation chamber (mode-tuned)	30 Hz to 10 kHz 10 kHz to 10 MHz 30 Hz to 150 kHz 400 Vpeak 4 kHz to 200 MHz Impulse 5 A 10 kHz to 100 MHz 30 Hz to 100 kHz 10 kHz to 18 GHz 30 Hz to 100 kHz 2 MHz to 18 GHz Max. 200 V/m	BS-6	N

No. KT009

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

No. KT009

Test method	Standard designation	Test range	Site	Field testing
MIL-STD-461G: 2015	Department of Defense Interface Standard, Requirements for the control of Electromagnetic Interference Characteristics of Subsystems and Equipment 5.4 CE101, conducted emissions, audio frequency currents, power leads 5.5 CE102, conducted emissions, radio frequency potential, power leads 5.7 CS101, conducted susceptibility, power leads 5.12 CS114, conducted susceptibility, bulk cable injection 5.13 CS115, conducted susceptibility, bulk cable injection, impulse excitation 5.14 CS116, conducted susceptibility, damped sinusoidal transients, cables and power leads 5.15 CS117, conducted susceptibility, lightning induced transients, cables and power leads 5.16 CS118, personnel borne electrostatic discharge 5.17 RE101, radiated emissions, magnetic field 5.18 RE102, radiated emissions, electric field 5.20 RS101, radiated susceptibility, magnetic field 5.21 RS103, radiated susceptibility, electric field 〈Exception〉 - 2 MHz ~ 100 MHz, 200 V/m - 5.21.4 RS103 alternative test procedures - reverberation chamber	30 Hz ~ 10 kHz 10 kHz ~ 10 MHz 30 Hz ~ 150 kHz, Max. 136 dBμV 4 kHz ~ 200 MHz, Max. 109 dBμA Max. 5 A 10 kHz ~ 100 MHz, Max. 10 A Waveform: 1, 2, 3, 4, 5A, 6, Multiple Stroke, Multiple Burst Contact/Air, ±15 kV 30 Hz ~ 100 kHz 10 kHz ~ 18 GHz 30 Hz ~ 100 kHz, Max. 183 dBpT 2 MHz ~ 18 GHz, Max. 200 V/m	BS-6	N

No. KT009

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

No. KT009

Test method	Standard designation	Test range	Site	Field testing
MIL-STD-462D: 1993	DEPARTMENT OF DEFENSE TEST METHOD FOR MEASUREMENT OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS 5. CE101 conducted emissions power leads 30 Hz to 10 kHz 5. CE102 conducted emissions power leads 10 kHz to 10 MHz 5. RE101 radiated emissions magnetic field 30 Hz to 100 kHz 5. RE102 radiated emissions electric field 10 kHz to 18 GHz 5. CS101 conducted susceptibility power leads 30 Hz to 50 kHz 5. CS114 conducted susceptibility bulk cable injection 10 kHz to 400 MHz 5. CS115 conducted susceptibility bulk cable injection impulse excitation 5. CS116 conducted susceptibility damped sinusoidal transients cable and power leads 10 kHz to 100 MHz 5. RS101 radiated susceptibility magnetic field 30 Hz to 100 kHz 5. RS103 radiated susceptibility electric field 10 kHz to 40 GHz	30 Hz to 10 kHz 10 kHz to 10 MHz 30 Hz to 100 kHz 10 kHz to 18 GHz 30 Hz to 50 kHz 10 kHz to 400 MHz Impulse 5 A 10 kHz to 100 MHz 30 Hz to 100 kHz 10 kHz to 18 GHz	BS-6	N

No. KT009

Test method	Standard designation	Test range	Site	Field testing
MIL-STD-462D:1993	Department of Defense Test Method Standard 5. CE101, conducted emissions, power leads, 30 Hz to 10 kHz 5. CE102, conducted emissions, power leads, 10 kHz to 10 MHz 5. RE101, radiated emissions, magnetic field, 30 Hz to 100 kHz 5. RE102, radiated emissions, electric field, 10 kHz to 18 GHz 5. CS101, conducted susceptibility, power leads, 30 Hz to 150 kHz 5. CS114, conducted susceptibility, bulk cable injection, 10 kHz to 200 MHz 5. CS115, conducted susceptibility, bulk cable injection, impulse excitation 5. CS116, conducted susceptibility, damped sinusoidal transients, cable and power leads, 10 kHz to 100 MHz 5. RS101, radiated susceptibility, magnetic field, 30 Hz to 100 kHz 5. RS103, radiated susceptibility, electric field, 2 MHz to 18 GHz	CE : 30 Hz ~ 10 MHz CS : 30 Hz ~ 1 GHz RE, RS : Max. 18 GHz Electric Field : Max. 50 V/m Magnetic Field : Max. 183 dBpT	BS-2	Y

No. KT009

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

No. KT009

Test method	Standard designation	Test range	Site	Field testing
NRC Reg. Guide 1.180:2003	Guidelines for evaluating electromagnetic and radio-frequency interference in safety-related instrumentation and control systems : 3.1 CE101-Conducted emissions, Low Frequency 3.2 CE102-Conducted emissions, High Frequency 3.3 RE101-Radiated emissions, Magnetic field 3.4 RE102-Radiated emissions, Electric field 3.5 IEC Emissions Tests 4.1.1 CS101-Conducted susceptibility, LF 4.1.2 CS114-Conducted susceptibility, HF 4.1.3 IEC Conducted Susceptibility - Power 4.2 EMI/RFI Conducted Susceptibility - Signal 4.3.1 RS101-Radiated susceptibility, MF 4.3.2 RS103-Radiated susceptibility, EF 4.3.3 IEC Radiated Susceptibility Tests 5.1 IEEE C62.41 Ring wave and IEC 61000-4-12 5.2 IEEE C62.41 Combination wave and IEC 61000-4-5 5.3 IEEE C62.41 Electrically Fast Transients and IEC 61000-4-4	CE, CS : Max. 1 GHz RE, RS : Max. 18 GHz Electric field : Max. 50 V/m Magnetic field : Max. 180 dBpT	BS-2	Y
RS-KTL-2012-0018:2012	HEMP Protection Filter 5.3.1 Performance Test 6.2.4 Overload test 6.3.2 PCI Life Testing	PCI : 5 000 A or less Power capacity : 200 A or less	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
RTCA DO-160F:2007	Environmental Conditions and Test Procedures for Airborne Equipment Section 15.0 Magnetic Effect Section 17.0 Voltage Spike Section 18.0 Audio Frequency Conducted Susceptibility -ower Inputs Section 19.0 Induced Signal Susceptibility Section 20.0 Radio Frequency Susceptibility (Radiated and Conducted) 〈Exception〉 -20.6 Radiated Susceptibility(RS) Test: Alternative Procedure -Reverberation Chamber Section 21.0 Emission of Radio Frequency Energy Section 22.0 Lightning Induced Transient Susceptibility Section 25.0 Electrostatic Discharge (ESD) 〈Exception〉 Section 1.0 Purpose and Applicability Section 2.0 Definitions of Terms - General Section 3.0 Conditions of Tests Section 4.0 Temperature and Altitude Section 5.0 Temperature Variation Section 6.0 Humidity Section 7.0 Operational Shocks and Crash Safety Section 8.0 Vibration Section 9.0 Explosion Proofness Section 10.0 Waterproofness Section 11.0 Fluids Susceptibility Section 12.0 Sand and	Dc : 1 degree Category A: 600 V Category B: 2 × V (AC RMS AND/OR DC, OR 200 V Whichever Is Less) 10 Hz ~ 148.593 6 kHz (Max. 16 Vp-p) 350 Hz ~ 32 kHz (Max. 120 A-m, 5 400 V-m) CS: 10 kHz ~ 400 MHz RS:100 MHz ~ 18 GHz (Up to 200 V/m) CE: 150 kHz ~ 152 MHz RE: 100 MHz ~ 6 GHz Waveform: 1,2,3,4,5A,5B,6,7,8 Max. ±15 kV	BS-6	N

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Test method	Standard designation	Test range	Site	Field testing
	Dust Section 13.0 Fungus Resistance Section 14.0 Salt Spray Section 16.0 Power Input Section 23.0 Lightning Direct Effects Section 24.0 Icing Section 26.0 Fire, Flammability			

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Test method	Standard designation	Test range	Site	Field testing
RTCA DO-160G:2010	Environmental Conditions and Test Procedures for Airborne Equipment Section 15.0 Magnetic Effect Section 17.0 Voltage Spike Section 18.0 Audio Frequency Conducted Susceptibility - ower Inputs Section 19.0 Induced Signal Susceptibility Section 20.0 Radio Frequency Susceptibility (Radiated and Conducted) 〈Exception〉 -20.6 Radiated Susceptibility(RS) Test: Alternative Procedure -Reverberation Chamber Method Section 21.0 Emission of Radio Frequency Energy Section 22.0 Lightning Induced Transient Susceptibility Section 25.0 Electrostatic Discharge (ESD) 〈Exception〉 Section 1.0 Purpose and Applicability Section 2.0 Definitions of Terms - General Section 3.0 Conditions of Tests Section 4.0 Temperature and Altitude Section 5.0 Temperature Variation Section 6.0 Humidity Section 7.0 Operational Shocks and Crash Safety Section 8.0 Vibration Section 9.0 Explosion Proofness Section 10.0 Waterproofness Section 11.0 Fluids Susceptibility	Dc : 1 degree Category A: 600 V Category B: 2 × V (AC RMS AND/OR DC, OR 200 V Whichever Is Less) 10 Hz ~ 148.5936 kHz (Max. 16 Vp-p) 350 Hz ~ 32 kHz (Max. 120 A-m, 5 400 V-m) CS: 10 kHz ~ 400 MHz RS:100 MHz ~ 18 GHz (Up to 200 V/m) CE: 150 kHz ~ 152 MHz RE: 100 MHz ~ 6 GHz Waveform:1,2,3,4,5A, 5B,6,7,8 Max. ±15 kV	BS-6	N

No. KT009

Test method	Standard designation	Test range	Site	Field testing
	Section 12.0 Sand and Dust Section 13.0 Fungus Resistance Section 14.0 Salt Spray Section 16.0 Power Input Section 23.0 Lightning Direct Effects Section 24.0 Icing Section 26.0 Fire, Flammability			
RTQ 427:2014	Technical Regulation for Quality	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-2	N
RTQ 427:2014	Technical Regulation for Quality	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz	BS-1	Y
SAE J 1113/11:2012	Immunity to Conducted Transients on Power Leads	TI : -600 V ~ 200 V	BS-2	N
SAE J 1113/12:2006	Electrical Interference by Conduction and Coupling - Capacitive and Inductive Coupling via Lines other than Supply Lines	TI : -80 V ~ 80 V	BS-2	N
SAE J 1113/13:2004	Electromagnetic Compatibility Measurement Procedure for Vehicle Components - Part 13 : Immunity to Electrostatic Discharge	ESD : ±25 kV	BS-2	N
SAE J 1113/21:2005	Electromagnetic Compatibility Measurement Procedure for Vehicle Components - Part 21 : Immunity to Electromagnetic Fields, 30 MHz to 18 GHz, Absorber-Lined Chamber	Freq. : 30 MHz ~ 18 GHz E/F : 200 V/m	BS-2	N
SAE J 1113/22:2003	Electromagnetic Compatibility Measurement Procedure for Vehicle Components - Part 22 : Immunity to Radiated Magnetic Fields	Freq. : 15 Hz ~ 30 kHz MFS : 80	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
SAE J 1113/26:2014	Electromagnetic Compatibility Measurement Procedure for Vehicle Components - Immunity to AC Power Line Electric Fields	E/F : 15 kV/m	BS-2	N
SAE J 1113/27:2012	Electromagnetic Compatibility Measurements Procedure for vehicle Components - Part 27 : Immunity to Radiated Electromagnetic fields - Mode Stir Reverberation Method	Freq. : 500 MHz ~ 2 GHz E/F : 150 V/m	BS-2	N
SAE J 1113/2:2004	Electromagnetic Compatibility Measurement Procedures and Limits for Vehicle Components (Except Aircraft) - Conducted Immunity, 15 Hz to 250 kHz - All Leads	Freq. : 15 Hz ~ 250 kHz Voltage : 3 Vpp	BS-2	N
SAE J 1113/3:2006	Conducted Immunity, 250 kHz to 400 MHz, Direct Injection of Radio Frequency (RF) Power	Freq. : 250 kHz ~ 400 MHz Power : 0.5 W	BS-2	N
SAE J 1113/41:2006	Limits and Methods of Measurement of Radio Disturbance Characteristics of Components and Modules for the Protection of Receivers used on Board Vehicles	CE : 150 kHz ~ 108 MHz RE : 150 kHz ~ 1 GHz	BS-2	N
SAE J 1113/42:2006	Electromagnetic Compatibility - Component Test Procedure - Part 42 : Conducted Transient Emissions	TE : 1 000 ns ~ 1 000 ms	BS-2	N
SAE J 1113/4:2014	Immunity to Radiated Electromagnetic Fields - Bulk Current Injection (BCI) Method	Freq. : 1 MHz ~ 400 MHz Current : 200 mA	BS-2	N
SANS 211:2010	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	RE : 150 kHz ~ 18 GHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
SANS 211:2010	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	RE : 150 kHz ~ 18 GHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz	BS-1	Y
SANS 213:2011	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	CE(mains) : 150 kHz ~ 30 MHz CE(antenna port) : 30 MHz ~ 2.15 GHz CE(RF output port) : 30 MHz ~ 2.15 GHz DP : 30 MHz ~ 300 MHz RE : 30 MHz ~ 1 GHz RP : 0.9 GHz ~ 18 GHz	BS-2	Y
SANS 213:2011	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	CE(mains) : 150 kHz ~ 30 MHz CE(antenna port) : 30 MHz ~ 2.15 GHz CE(RF output port) : 30 MHz ~ 2.15 GHz DP : 30 MHz ~ 300 MHz RE : 30 MHz ~ 1 GHz RP : 0.9 GHz ~ 18 GHz	BS-1	Y
SANS 214-1:2009	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	RE : 30 MHz ~ 1 GHz CE : 148.5 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz DP : 30 MHz ~ 1 GHz	BS-2	Y
SANS 214-1:2009	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	RE : 30 MHz ~ 1 GHz CE : 148.5 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz DP : 30 MHz ~ 1 GHz	BS-1	Y
SANS 214-2:2009	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 230 MHz V-DIP : ≤16 A per phase	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
SANS 214-2:2009	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 230 MHz V-DIP : 16 A per phase or less	BS-1	Y
SANS 215:2009	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	RE : 9 kHz ~ 300 MHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz IL : 150 kHz ~ 1 605 kHz	BS-2	Y
SANS 215:2009	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	RE : 9 kHz ~ 300 MHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz IL : 150 kHz ~ 1 605 kHz	BS-1	Y
SANS 222:2009	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-2	Y
SANS 222:2009	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-1	Y
SANS 224:2010	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz M/F : 1 A/m V-DIP : ≤16 A per phase	BS-2	Y
SANS 224:2010	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz M/F : 1 A/m V-DIP : 16 A per phase or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
SANS 225:2008	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	CE : 150 kHz ~ 108 MHz RE : 150 kHz ~ 2.5 GHz	BS-2	N
SANS 225:2008	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	CE : 150 kHz ~ 108 MHz RE : 150 kHz ~ 2.5 GHz	BS-1	Y
SANS 60601-1-2:2014	Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE : 150 kHz ~ 1 GHz CE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.5 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : ≤16 A per phase	BS-2	Y
SANS 60601-1-2:2014	Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE : 150 kHz ~ 1 GHz CE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.5 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
SANS 61000-3-11:2003	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 ≤75 A and subject to conditional connection	75 A or less Pst < 1.0 Plt < 0.65 d(t) < 3.3 % dc < 3.3 % dmax : a) < 4 %, b) < 6 %, c) < 7 %	BS-2	Y
SANS 61000-3-11:2003	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 ≤75 A and subject to conditional connection	75 A or less per phase Pst < 1.0 Plt < 0.65 d(t) < 3.3 % dc < 3.3 % dmax : a) < 4 %, b) <6 %, c) < 7 %	BS-1	N
SANS 61000-3-12:2012	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 ≤75 A per phase	AC input current : Max. 75 A (per phase)	BS-2	Y
SANS 61000-3-12:2012	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 ≤75 A per phase	AC input current : Max. 75 A (per phase)	BS-1	N
SANS 61000-3-2:2009	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)	16 A or less	BS-2	Y

No. KT009

Test method	Standard designation	Test range	Site	Field testing
SANS 61000-3-2:2009	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase)	16 A or less per phase	BS-1	N
SANS 61000-3-3:2009	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 ≤16 A per phase and not subject to conditional connection	16 A or less Pst < 1.0 Plt < 0.65 d(t) < 3.3 % dc < 3.3 % dmax : a) < 4 %, b) < 6 %, c) < 7 %	BS-2	Y
SANS 61000-3-3:2009	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 ≤16 A per phase and not subject to conditional connection	16A or less per phase Pst < 1.0 Plt < 0.65 d(t) < 3.3 % dc < 3.3 % dmax : a) < 4 %, b) <6 %, c) < 7 %	BS-1	N
SANS 61000-4-11:2005	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 0 % during 1/2 cycle 0 % during 1 cycle 40 % during 10/12 cycle 70 % during 25/30 cycle 80 % during 250/300 cycle 0 % during 250/300 cycle	BS-2	Y
SANS 61000-4-11:2005	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 0 % during 1/2 cycle 0 % during 1 cycle 40 % during 10/12 cycle 70 % during 25/30 cycle 80 % during 250/300 cycle 0 % during 250/300 cycle	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
SANS 61000-4-12:2007	Electromagnetic compatibility (EMC) Part 4-12: Testing and measurement techniques - Ring wave immunity test	Voltage oscillation frequency : 100 kHz ± 10 % Open-circuit voltage : 250 to 4 kV Short-circuit Current : 333 A ± 10 % 12 Ω	BS-2	Y
SANS 61000-4-12:2007	Electromagnetic compatibility (EMC) Part 4-12: Testing and measurement techniques - Ring wave immunity test	Voltage oscillation frequency : 100 kHz ± 10 % Open-circuit voltage : 250 to 4 kV Short-circuit Current : 333 A ± 10 % 12 Ω	BS-1	N
SANS 61000-4-13:2009	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 Frequency range: 2 kHz / 50 Hz, 2.4 kHz / 60 Hz	BS-2	Y
SANS 61000-4-13:2009	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 Frequency range: 2 kHz / 50 Hz 2.4 kHz / 60 Hz	BS-1	N
SANS 61000-4-14:2009	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) U(nom)-10 % U(nom) U(nom)+10 %U(nom)	BS-2	Y
SANS 61000-4-14:2009	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) U(nom)-10 % U(nom) U(nom)+10 % U(nom)	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
SANS 61000-4-16:2011	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	Y
SANS 61000-4-16:2011	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	0 Hz ~ 150 kHz	BS-1	N
SANS 61000-4-17:2009	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	Y
SANS 61000-4-17:2009	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
SANS 61000-4-27:2009	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	Y
SANS 61000-4-27:2009	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-1	N

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Test method	Standard designation	Test range	Site	Field testing
SANS 61000-4-28:2009	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	Y
SANS 61000-4-28:2009	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-1	N
SANS 61000-4-29:2005	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	Y
SANS 61000-4-29:2005	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-1	N
SANS 61000-4-2:2009	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	Max. ±30 kV, 150 pF /330 Ω	BS-2	Y
SANS 61000-4-2:2009	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	Max. ±30 kV, 150 pF /330 Ω	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
SANS 61000-4-3:2008	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
SANS 61000-4-3:2008	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	Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EFT : ±4 kV	BS-2	Y
SANS 61000-4-4:2011	Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EFT : Max ±4 kV	BS-1	Y
SANS 61000-4-5:2006	Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test	SURGE : ±6 kV	BS-2	Y
SANS 61000-4-5 : 2006	Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test	SURGE : Max ±6 kV	BS-1	Y
SANS 61000-4-6:2017	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 Voltage : 10 Vrms	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
SANS 61000-4-6:2017	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 Voltage : 10 Vrms	BS-1	Y
SANS 61000-4-8:2009	Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	M/F : 100 A/m	BS-2	Y
SANS 61000-4-8:2009	Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	M/F : Max 100 A/m	BS-1	Y
SANS 61000-4-9:2003	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-2	Y
SANS 61000-4-9:2003	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
SANS 61000-6-1:2005	Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : ≤16 A per phase	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
SANS 61000-6-1:2005	Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y
SANS 61000-6-2:2005	Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity for industrial environments	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 30 A/m V-DIP : ≤16 A per phase	BS-2	Y
SANS 61000-6-2:2005	Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity for industrial environments	ESD : ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 30 A/m V-DIP : 16 A per phase or less	BS-1	Y
SANS 61000-6-3:2011	Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	RE : 30 MHz ~ 1 GHz CE : 150 kHz ~ 30 MHz	BS-2	Y
SANS 61000-6-3:2011	Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	RE : 30 MHz ~ 1 GHz CE : 150 kHz ~ 30 MHz	BS-1	Y
SANS 61000-6-4:2011	Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments	RE : 30 MHz ~ 1 GHz CE : 150 kHz ~ 30 MHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
SANS 61000-6-4:2011	Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments	RE : 30 MHz ~ 1 GHz CE : 150 kHz ~ 30 MHz	BS-1	Y
SANS 61326-1:2007	Electrical equipment for measurement, control and laboratory use - EMC requirements Part 1: General requirements	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : Max ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-DIP : ≤16 A per phase	BS-2	Y
SANS 61326-1:2007	Electrical equipment for measurement, control and laboratory use - EMC requirements Part 1: General requirements	RE : 150 kHz ~ 18 GHz CE : 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : Max ±8 kV RS : 80 MHz ~ 2.7 GHz EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz MF : 30 A/m V-DIP : 16 A per phase or less	BS-1	Y
SANS 61326-2-3:2009	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 : ±8 kV RS : 80 MHz ~ 3 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : ≤16 A per phase	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
SANS 61326-2-3:2009	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 : ±8 kV RS : 80 MHz~ 3 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : ≤16 A per phase	BS-1	Y
SANS 61547:2012	Equipment for general lighting purposes - EMC immunity requirements	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : ≤16 A per phase	BS-2	Y
SANS 61547:2012	Equipment for general lighting purposes - EMC immunity requirements	ESD : ±8 kV RS : 80 MHz~ 1 GHz EFT : ±1 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz M/F : 3 A/m V-DIP : 16 A per phase or less	BS-1	Y
SANS 62040-2:2007	Uninterruptible power systems (UPS) Part 2: Electromagnetic compatibility (EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±2 kV SURGE : ±2 kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : ≤16 A per phase	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
SANS 62040-2:2007	Uninterruptible power systems (UPS) Part 2: Electromagnetic compatibility (EMC) requirements	CE : 150 kHz ~ 30 MHz RE : 30 MHz~ 1 GHz ESD : ± 8 kV RS : 80 MHz~ 1 GHz EFT : ±2 kV SURGE : ±2kV CS : 150 kHz ~ 80 MHz MFS : 30 A/m V-DIP : 16 A per phase or less	BS-1	Y
SANS 62233:2006	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	Frequency range : 10 Hz ~ 400 kHz	BS-2	Y
SANS 62233:2006	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	Frequency range : 10 Hz ~ 400 kHz	BS-1	Y
SPS-SGSF-025-4-1972:2019	General performance requirements of PCS(Power Conversion System) for electrical energy storage system 7.5 EMC(ElectroMagnetic Compatibility) Test	CE: 150 kHz ~ 30 MHz RE: 30 MHz ~ 1 GHz ESD: ±15 kV RS: 80 MHz ~ 2.7 GHz EFT: ±4 kV Surge: ±4 kV CS: 150 kHz ~ 80 MHz MFS: 1,000 A/m	BS-2	Y
TCVN 7186:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	RE : 9 kHz ~ 300 MHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz	BS-7	N
TCVN 7186:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	RE : 9 kHz ~ 300 MHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz IL : 150 kHz ~ 1 605 kHz	BS-2	Y
TCVN 7186:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	RE : 9 kHz ~ 300 MHz CE : 9 kHz ~ 30 MHz MFE : 9 kHz ~ 30 MHz IL : 150 kHz ~ 1 605 kHz	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
TCVN 7189:2009	Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-7	N
TCVN 7189:2009	Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-2	Y
TCVN 7189:2009	Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement	RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz	BS-1	N
TCVN 7317:2003	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz M/F : 1 A/m V-DIP ≤16 A	BS-2	Y
TCVN 7317:2003	Information technology equipment - Immunity characteristics- Limits and methods of measurement	ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m EFT : ±1 kV Surge : ±4 kV CS : 150 kHz ~ 80 MHz, 3 V M/F : 1 A/m V-DIP : 0 %, 0.5 cycle 70 %, 25 cycle 0 %, 250 cycle	BS-7	N
TCVN 7317:2003	Information technology equipment - Immunity characteristics- Limits and methods of measurement	ESD : ±8 kV RS : 80 MHz ~ 1 GHz EFT : ±1 kV SURGE : ±4 kV CS : 150 kHz ~ 80 MHz M/F : 1 A/m V-DIP ≤16 A	BS-1	N
TCVN 7492-1:2018	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	RE : 30 MHz ~ 1 GHz CE : 148.5 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz DP : 30 MHz ~ 1 GHz	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
TCVN 7492-1:2018	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	RE : 30 MHz ~ 1 GHz CE : 148.5 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz DP : 30 MHz ~ 1 GHz	BS-7	N
TCVN 7492-1:2018	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	RE : 30 MHz ~ 1 GHz CE : 148.5 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz DP : 30 MHz ~ 1 GHz	BS-1	N
KATS Notice No.2009-746(01.12.2009.)	Quality-certification standard for a household cleaning robot QCR-1A001 6.5 Electromagnetic compatibility (EMC)	RE : 30 MHz ~ 1 GHz ESD : ±8 kV RS : 80 MHz ~ 1 GHz, 3 V/m	BS-2	Y
MOTIE Notice No.2018-206(20.11.2018.)	Watt-hour meters technical standards 9.2 electromagnetic compatibility : EMC	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±15 kV RS : 80 MHz ~ 2 GHz, 30 V/m EFT : ±4 kV Surge : ±4 kV Ringwave : ±2.5 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 0.5 mT V-DIP : 0 %, 1 cycle 40 %, 12 cycle 70 %, 30 cycle 0 %, 300 cycle	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2018-206(20.11.2018.)	Technical standards for electricity meters 1-1 Normal requirements for electricity meters 9.2 electromagnetic compatibility : EMC 1-2 Type approval standard for AC induced electricity meters 9.2 electromagnetic compatibility : EMC 1-3 Type approval standard for AC electronic electricity meters 9.2 electromagnetic compatibility : EMC 1-4 Type approval standard for DC electronic electricity meters 9.2 electromagnetic compatibility : EMC	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±15 kV RS : 80 MHz ~ 2 GHz, 30 V/m EFT : ±4 kV Surge : ±4 kV Ring wave : ±2.5 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 0.5 mT V-DIP : ≤75 A	BS-2	Y
MOTIE Notice No.2020-017(19.02.2020.)	Electric vehicle chargers technical standards 8.2.1 Electromagnetic Compatibility	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : ≤75 A	BS-2	Y
MOTIE Notice No.2020-017(19.02.2020.)	Electric vehicle chargers technical standards 8.2.1 Electromagnetic Compatibility	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz ESD : ±8 kV RS : 80 MHz ~ 6 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V MFS : 30 A/m V-DIP : 0 %, 1 cycle 40 %, 12 cycle 70 %, 30 cycle 0 %, 300 cycle	BS-7	N

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Test method	Standard designation	Test range	Site	Field testing
MFDS Notice No.2020-12(25.02.2020.)	Common Standards and Specifications on Electromagnetic Safety of Medical Devices	RE : 150 kHz ~ 1 GHz CE : 9 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD : ±8 kV RS : 80 MHz ~ 2.5 GHz, 10 V/m EFT : ±2 kV Surge : ±2 kV CS : 150 kHz ~ 80 MHz, 10 V M/F : 3 A/m V-DIP : < 5 %, 0.5 cycle 40 %, 5 cycle 70 %, 25 cycle < 5 %, 300 cycle	BS-7	N

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03. Electrical Testing

03.012 Software Test

Test method	Standard designation	Test range	Site	Field testing
EN 50128:2011	Railway Applications-Communications, signalling and processing systems-Software for railway control and protection systems 7.5.4.7. b), Table A.12, Table A.13, Table A.19, Table A.21 1,2,	-	BS-1	Y
EN 81-50:2020	Safety rules for the construction and installation of lifts - Examinations and tests Part 50: Design rules, calculations, examinations and tests of lift components - 5.6 Type examination of safety circuits containing electronic components and/or programmable electronic systems (PESSRAL) - Annex B (normative) Programmable electronic systems in safety related applications for lifts (PESSRAL)	-	BS-4	Y
IEC 60335-1:2020	Household and similar electrical appliances - Safety - Part 1: General requirements Annex R Software evaluation	-	BS-4	Y
IEC 60730-1:2013	Automatic electrical controls-Part1:General requirements - Annex H : Requirements for electronic controls	-	BS-4	Y
IEC 61508-1:2010	Functional safety of electrical / electronic / programmable electronic safety-related systems - Part 1: General requirements	-	BS-4	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 61508-2:2010	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	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	Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 3: Software requirements	-	BS-4	Y
IEC 62061:2005+AMD1:2012+AMD2:2015	Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems	-	BS-4	Y
IEC 62279:2015	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
IEC 62304:2006	Medical device software - Software life cycle processes	-	BS-1	N
IEC 62304:2006 /AMD1:2015	Medical device software - Software life cycle processes	-	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 62443-2-4:2015+AMD1:2017	Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers	-	BS-1	Y
IEC 62443-3-3:2013	Industrial communication networks - Network and system security - Part 3-3: System security requirements and security levels	-	BS-1	Y
IEC 62443-4-1:2018	Security for industrial automation and control systems - Part 4-1: Secure product development lifecycle requirements	-	BS-1	Y
IEC 62443-4-2:2019	Security for industrial automation and control systems - Part 4-2: Technical security requirements for IACS components	-	BS-1	Y
IEC 62619:2017	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)	-	BS-4	Y
IEC 62990-1:2019	Workplace atmospheres - Part 1: Gas detectors - Performance requirements of detectors for toxic gases 4.2.9 Software-controlled equipment 5.4.10 Software-controlled equipment	-	BS-1	Y
IEC 62990-1:2019	Workplace atmospheres - Part 1: Gas detectors - Performance requirements of detectors for toxic gases 4.2.9 Software-controlled equipment 5.4.10 Software-controlled equipment	-	BS-4	Y

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Test method	Standard designation	Test range	Site	Field testing
ISO/IEC 15408-1:2009	Information technology - Security techniques - Evaluation criteria for IT security - Part 1 : Introduction and general model	-	BS-1	N
ISO/IEC 15408-1:2009	Information technology - Security techniques - Evaluation criteria for IT security - Part 1 : Introduction and general model	-	BS-4	N
ISO/IEC 15408-2:2008	Information technology - Security techniques - Evaluation criteria for IT security - Part 2 : Security functional components	-	BS-1	N
ISO/IEC 15408-2:2008	Information technology - Security techniques - Evaluation criteria for IT security - Part 2 : Security functional components	-	BS-4	N
ISO/IEC 15408-3:2008	Information technology - Security techniques - Evaluation criteria for IT security - Part 3 : Security assurance components	-	BS-1	N
ISO/IEC 15408-3:2008	Information technology - Security techniques - Evaluation criteria for IT security - Part 3 : Security assurance components	-	BS-4	N
ISO/IEC 18045:2008	Information technology - Security techniques - Methodology for IT security evaluation	-	BS-4	N
ISO/IEC 18045:2008	Information technology - Security techniques - Methodology for IT security evaluation	-	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
ISO/IEC 25021:2012	Systems and software engineering - Systems and software Quality Requirements and Evaluation(SQuaRE) - Quality measure elements	-	BS-1	Y
ISO/IEC 25023:2016	Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Measurement of system and software product quality	-	BS-1	Y
ISO/IEC 25023:2016	Systems and software engineering - Systems and software Quality Requirements and Evaluation(SQuaRE) - Measurement of system and software product quality	-	BS-4	Y
ISO/IEC 25024:2015	Systems and software engineering - Systems and software Quality Requirements and Evaluation(SQuaRE) - Measurement of data quality	-	BS-1	Y
ISO/IEC 25051:2014	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 25051:2014	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

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Test method	Standard designation	Test range	Site	Field testing
KC 62619 :2019	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
KS C 5078:2015	Video data recording systems for road vehicle accidents - 7.2.4.2 Verification of integrity function for recoded events	-	BS-1	N
KS C 5078:2015	Video data recording systems for road vehicle accidents - 7.2.4.2 Verification of integrity function for recoded events	-	BS-4	N
KS C IEC 60730-1:1999	Automatic electrical controls for household and similar use - Part1:General requirements - Annex H : Requirements for electronic controls	-	BS-4	Y
KS C IEC 61508-1:2010	Functional safety of electrical / electronic / programmable electronic safety-related systems - Part 1: General requirements	-	BS-4	Y
KS C IEC 61508-2:2000	Functional safety of electrical / electronic / programmable electronic safety-related systems - Part 2: Requirements for electrical / electronic / programmable electronic safety-related systems	-	BS-4	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 61508-3:1998	Functional safety of electrical / electronic / programmable electronic safety-related systems - Part 3: Software requirements	-	BS-4	Y
KS C IEC 62619:2017	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)	-	BS-4	Y
KS C IEC 62990-1:2019	Workplace atmospheres - Part 1: Gas detectors - Performance requirements of detectors for toxic gases 4.2.9 Software-controlled equipment 5.4.10 Software-controlled equipment	-	BS-1	Y
KS C IEC 62990-1:2019	Workplace atmospheres - Part 1: Gas detectors - Performance requirements of detectors for toxic gases 4.2.9 Software-controlled equipment 5.4.10 Software-controlled equipment	-	BS-4	Y
KS X IEC 62443-4-2:2019	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	Information technology - Security techniques - Evaluation criteria for IT security - Part 1 : Introduction and general model	-	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KS X ISO/IEC 15408-1:2014	Information technology - Security techniques - Evaluation criteria for IT security - Part 1 : Introduction and general model	-	BS-4	N
KS X ISO/IEC 15408-2:2008	Information technology - Security techniques - Evaluation criteria for IT security - Part 2 : Security functional components	-	BS-1	N
KS X ISO/IEC 15408-2:2014	Information technology - Security techniques - Evaluation criteria for IT security - Part 2 : Security functional components	-	BS-4	N
KS X ISO/IEC 15408-3:2008	Information technology - Security techniques - Evaluation criteria for IT security - Part 3 : Security assurance components	-	BS-1	N
KS X ISO/IEC 15408-3:2014	Information technology - Security techniques - Evaluation criteria for IT security - Part 3 : Security assurance components	-	BS-4	N
KS X ISO/IEC 18045:2010	Information technology - Security techniques - Methodology for IT security evaluation	-	BS-4	N
KS X ISO/IEC 18045:2010 (IDT ISO/IEC 18045:2008)	Information technology - Security techniques - Methodology for IT security evaluation	-	BS-1	N
KS X ISO/IEC 25023:2016	Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Measurement of system and software product quality	-	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
KS X ISO/IEC 25023:2016	Systems and software engineering — Systems and software Quality Requirements and Evaluation(SQuaRE) — Measurement of system and software product quality	-	BS-4	Y
KS X ISO/IEC 25051:2014	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
KS X ISO/IEC 25051:2014	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
KS X ISO/IEC TR 9126-2:2003	Information technology - Software engineering - product quality - Part 2 : External metrics	-	BS-1	N
KS X ISO/IEC TR 9126-2:2008	Information technology - Software engineering - Product quality - Part 2 : External metrics	-	BS-4	N
MISRA C:2004	Guidelines for the use of the C language in critical systems	-	BS-1	Y
MISRA-C:2004	Guidelines for the use of the C language in critical systems	-	BS-4	Y
MSIT Notice No.2020-84(24.12.2020.)	Guidelines for the operation of software quality certification	-	BS-4	Y
MSIT Notice No.2020-84(24.12.2020.)	Guidelines for the operation of software quality certification	-	BS-1	Y

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Test method	Standard designation	Test range	Site	Field testing
MSIT Notice No.2016-73(27.06.2016.)	Common criteria for information technology security evaluation CCMB-2006-09-001 : Common criteria for information technology security evaluation Part 1 : Introduction and general model V3.1r1 CCMB-2007-09-002 : Common criteria for information technology security evaluation Part 2 : ecurity functional requirements V3.1r2 CCMB-2007-09-003 : Common criteria for information technology security evaluation Part 3 : Assurance requirements V3.1r2 CCMB-2007-09-004 : Common Methodology for Information Technology Security Evaluation V3.1r2 CCMB-2012-09-001 : Common criteria for information technology security evaluation Part 1 : Introduction and general model V3.1r4 CCMB-2012-09-002 : Common criteria for information technology security evaluation Part 2 : ecurity functional requirements V3.1r4 CCMB-2012-09-003 : Common criteria for information technology security evaluation Part 3 : Assurance requirements V3.1r4 CCMB-2012-09-004 : Common Methodology for Information Technology Security Evaluation V3.1r4	EAL1 ~ EAL3	BS-4	N

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Test method	Standard designation	Test range	Site	Field testing
MOIS Notice No.2019-32(04.04.2019.)	Safety code for elevator safety components and safety code for lifts Safety code for elevators under Article 4 subparagraph 1 : Appendix 22 -15.2.6 Programmable Electronic Systems in Safety Related Applications(PESSRAL) - Annex Ⅰ List of electrical safety circuits - Annex XⅢ (Normative) Programmable Electronic Systems in Safety Related Applications for Lifts(PESSRAL)	-	BS-4	Y

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03. Electrical Testing

03.013 Energy Efficiency

Test method	Standard designation	Test range	Site	Field testing
AHRI 1060:2014	Performance Rating of Airto-Air Exchangers for Energy Recovery Ventilation Equipment	3 000 Nm3/h or less	BS-2	N
AHRI 1230:2009	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	Performance rating of Variable Refrigerant Flow(VRF) Multi-Split Air-conditioning and Heatpump equipment	(1 160 ~ 87 000) W	BS-2	N
AHRI 1300:2013	Standard for performance rating of commercial heatpump water heaters	(1 160 ~ 87 000) W	BS-2	N
AHRI 1301:2013	Performance Rating of Commercial Heat Pump Water Heaters	(1 160 ~ 87 000) W	BS-2	N
AHRI 210/240:2017	Methods of testing for room air conditioners and packaged terminal air conditioner	(1 160 ~ 87 000) W	BS-2	N
AHRI 210/240:2017	Performance Rating of Unitary Air - conditioning & Air-source Heat Pump Equipment	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
AHRI Standard 340/360:2015	Performance rating of Commercial and Industrial Unitary Air -conditioning and Heat pump equipment	(1 160 ~ 87 000) W	BS-2	N
AHRI Standard 870:2016	Direct Geoexchange Heats pumps	(1 160 ~ 87 000) W	BS-2	N
ANSI-ASHRAE 37:2009	Methods of testing for rating Unitary Air - conditioning and heat pump equipment	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
ANSI/AHRI 440-2008	Performance Rating of Room Fan-Coils	(1 160 ~ 87 000) W	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
ANSI/ASHARE 16-2016	Method of Testing for Rating Room Air Conditioners, Packaged Terminal Air Conditioners, and Packaged Terminal Heat Pumps for Cooling and Heating Capacity	1 160 ~ 87 000) W	BS-2	N
ANSI/ASHRAE 16:1983 (R2014)	Methods of testing for room air conditioners and packaged terminal air conditioner:	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
ANSI/ASHRAE 16:1983(R 2014)	Method Of Testing For Rating Room Air Conditioners, Packaged Terminal Air Conditioners and Packaged Terminal Heat Pumps for Cooling and Heating Capacity	(1 160 ~ 87 000) W	BS-2	N
ANSI/ASHRAE 37:2009	Methods of testing for rating Electrically driven Unitary Air conditioning and heat pumps equipments	(1 160 ~ 87 000) W	BS-2	N
AS-NZS 3823.1.1-2012	Non ducted air conditions and geat pumps-Testing and rating for performance	(1 160 ~ 87 000) W	BS-2	N
AS-NZS 3823.1.1.:2012	Nonducted air conditions and geat pumps-Testing and rating for performance	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
AS-NZS 3823.1.2-2012	Ducted air conditioners and air-to-air heat pumps Testing and rating for performance	(1 160 ~ 87 000) W	BS-2	N
AS-NZS 3823.1.2.:2012	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
AS-NZS 3823.3-2002	Performance of electrical appliances-Air conditioners and heat pumps-performance of electrical appliances-Air conditioners and heat pumps(MEPS) requirements	(1 160 ~ 87 000) W	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
AS-NZS 3823.3:2002	Calculation of performance for minimum energy performance standard requirements	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
AS-NZS 4474.1:2007 Amdt2:2011	Performance of household electrical appliances - Refrigerating appliances - Energy consumption and performance	(0 ~ 600) V (0 ~ 20) A	BS-1	N
AS-NZS 4474.1:2007 Amdt2:2011	Performance of household electrical appliances - Refrigerating appliances - Energy consumption and performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
AS/NZS 2040.1:2005	Performance of household electrical appliances - Clothes washing machines- Part 1 : Methods for measuring performance energy and water consumption	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
AS/NZS 2040.2:2005	Performance of household electrical appliances - Clothes washing machines- Part 2 : Energy efficiency labelling requirements	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
AS/NZS 2442.1:1996	Performance of household electrical appliances- Rotary clothes dryers- Part 1 : Energy Consumption and Performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
AS/NZS 2442.2:2000	Performance of household electrical appliances - Rotary clothes dryers- Part 2 : Energy labelling requirements	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
AS/NZS 3823.1.3.:2005/ Amdt1:2011	Performance of electrical appliances - Air conditioners and heat pumps Water-source heat pumps - Water-to-air and brine-to-air heat pumps - Testing and rating of performance (ISO 13256-1, Ed. 01 (1998) MOD)	(1 160 ~ 87 000) W	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
AS/NZS 3823.1.4:2012	Performance of electrical appliances - Air conditioners and heat pumps Multiple split-system air conditioners and air-to-air heat pumps - Testing and rating for performance (ISO 15042 : 2011, MOD)	(1 160 ~ 87 000) W	BS-2	N
AS/NZS 3823.2:2013	Performance of electrical appliances - Air conditioners and heat pumps Energy labelling and minimum energy performance standards (MEPS) requirements	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
AS/NZS 3823.2:2013	Performance of electrical appliances - Air conditioners and heat pumps Energy labelling and minimum energy performance standards (MEPS) requirements	(1 160 ~ 87 000) W	BS-2	N
AS/NZS 4234:2008/Amdt 2:2011	Heated water systems - calculation of energy consumption	(1 160 ~ 87 000) W	BS-2	N
AS/NZS 4234:2008/Amdt 3:2014	Heated Water systems - calculation of energy consumption	(1 160 ~ 87 000) W	BS-2	N
AS/NZS 4474.1:2007/Amdt2:2011	Performance of household electrical appliances - Refrigerating appliances - Energy consumption and performance	10 kW or less	BS-2	N
AS/NZS 4474.2:2009/Amdt1:2011	Performance of household electrical appliances - Refrigerating appliances energy labelling and minimum energy performance standard requirements	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
AS/NZS 4474.2:2009/Amdt1:2011	Performance of household electrical appliances - Refrigerating appliances energy labelling and minimum energy performance standard requirements	(0 ~ 600) V (0 ~ 20) A	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
AS/NZS 4474.2:2009/Amdt2:2014	Performance of household electrical appliances - Refrigerating appliances Energy labelling and minimum energy performance standard requirements	(1 160 ~ 87 000) W	BS-2	N
AS/NZS 4692.1:2005(R2016)/Amdt2:2015	Electric water heaters - energy consumption, performance and general requirements	(1 160 ~ 87 000) W	BS-2	N
AS/NZS 5125	Heat Pump Water Heaters - Performance Assessment	(1 160 ~ 87 000) W	BS-2	N
AS/NZS 5125.1:2014	HeatPump Water Heaters-performance Assessment	(1 160 ~ 87 000) W	BS-2	N
AS/NZS 6400:2016	Water efficient products - Rating and labelling	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
BS EN 14511-1:2018	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 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 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 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	Standard designation	Test range	Site	Field testing
BS EN 14825:2018	Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space Heating and cooling. Testing and rating at part load conditions and calculation of seasonal performance	(1 160 ~ 87 000) W	BS-2	N
BS EN 15218:2013	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	(1 160 ~ 87 000) W	BS-2	N
BS EN 16147:2017	Heat pumps with electrically driven compressors - Testing, performance rating and requirements for marking of domestic hot water units	(1 160 ~ 87 000) W	BS-2	N
DECRETO SUPREMO Nº 009-2017-em_ANEXO 6 Lavadoras	On labeling of energy efficiency for washing machines deomestic use clothes	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
DGNTI-COPANIT506:2017	Energy efficiency of central, package or split type air conditioners. Limits, test methods.	(1 160 ~ 87 000) W	BS-2	Y
DGNTI-COPANIT507:2017	Energy efficiency for room air conditioners. Limits, test methods.	(1 160 ~ 87 000) W	BS-2	Y
DGNTI-COPANIT508:2017	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	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

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Test method	Standard designation	Test range	Site	Field testing
DGNTI-COPANIT511:2017	Energy efficiency of refrigerator and freezer appliances. Limits, test methods.	10 kW or less	BS-2	Y
EN 14511-3:2018	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
EN 14511:2011	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space Heating and cooling	(1 160 ~ 87 000) W	BS-2	N
EN 14825:2012	Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space Heating and cooling - Testing and rating at part load conditions and calculation of seasonal performance	(1 160 ~ 87 000) W	BS-2	N
EN 14825:2018	Air conditioners liquid chilling packages and heat pumps With electrically driven compressors for space heating and cooling - Testing and rating at part load conditions and calculation of seasonal performance	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
EN 26:2015	Electric instantaneous water heaters. General requirements	(1 160 ~ 87 000) W	BS-2	N
EN 50229:2007	Electric Clothes Washer-Dryers For Household Use - Methods Of Measuring The Performance <Exception> 9.5 Determination of airborne acoustical noise	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N

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Test method	Standard designation	Test range	Site	Field testing
EN 50229:2015	Electric Clothes Washer-Dryers For Household Use - Methods Of Measuring The Performance <Exception> 9.5 Determination of airborne acoustical noise	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
EN 60456:2011	Clothes washing machines for household use - Methods for measuring the performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
EN 60456:2016	Clothes washing machines for household use - Methods for measuring the performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
EN 61121:2005	Tumble dryers for household use - Methods for measuring the performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
EN 61121:2013	Tumble dryers for household use - Methods for measuring the performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
GB/T 21362-2008	Heatpump Water Heater for Commercial & Industrial and Similar Uses	(1 160 ~ 87 000) W	BS-2	N
GB/T 23137-2008	Heatpump Water Heater for Household and Similar Uses	(1 160 ~ 87 000) W	BS-2	N
IEC 60034-1:2010	Rotating electrical machines - Part 1: Rating and performance	single phase: 400 V or less three phase: 600 V or less Power: 375 kW or less	BS-2	Y
IEC 60034-1:2017	Rotating electrical machines - Part 1: Rating and performance	single phase: 400 V or less three phase: 600 V or less Power: 375 kW or less	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 60034-2-1:2014	Rotating electrical machines - Part 2-1: Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)	single phase: 400 V or less three phase: 600 V or less Power: 375 kW or less	BS-2	Y
IEC 60034-30-1:2014	Rotating electrical machines - Part 30-1: Efficiency classes of line operated AC motors (IE code)	single phase: 400 V or less three phase: 600 V or less Power: 375 kW or less	BS-2	Y
IEC 60034-30:2008	Rotating electrical machines - Part 30: Efficiency classes of single-Speed, three-phase, cage-induction motors (IE-code)	single phase: 400 V or less three phase: 600 V or less Power: 375 kW or less	BS-2	Y
IEC 60456:2003 (Ed 4.0)	Clothes washing machines for household use Methods for measuring the performance Fourth Edition	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
IEC 60456:2010 (Ed 5.0)	Clothes washing machines for household use - Methods for measuring the performance Edition 5.0	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
IEC 60705:2010	Household microwave ovens - Methods for measuring performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
IEC 61121 Ed3.1:2002+AMD1:2005	Tumble dryers for household use - Methods for measuring the performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
IEC 61121:2012	Tumble Dryers For Household Use - Methods For Measuring The Performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
IEC 61215 Ed. 2.0b:2005	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61646 Ed. 2.0b:2008	Thin-film terrestrial photovoltaic (PV) modules - Design qualification and type approval	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	BS-2	N
IEC 61730-1 Ed. 1.2b:2013	Photovoltaic (PV) module safety qualification - Part 1 : Requirements for construction Qualification	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	BS-2	N
IEC 61730-2 Ed. 1.1b:2012	Photovoltaic (PV) module safety qualification - Part 2 : Requirements for testing 10.8 Fire test	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	SF-1	N
IEC 61730-2 Ed. 1.1b:2012	Photovoltaic (PV) module safety qualification - Part 2 : Requirements for testing 〈Exception〉 10.8 Fire test	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	BS-2	N
IEC 62087-1:2015	Audio, video, and related equipment - Determination of power consumption - Part 1: General	(0 ~ 2 200) W	BS-1	N
IEC 62087-2:2015	Audio, video, and related equipment - Determination of power consumption - Part 2: Signals and media	(0 ~ 2 200) W	BS-1	N
IEC 62087-3:2015	Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets	(0 ~ 2 200) W	BS-1	N
IEC 62087-4:2015	Audio, video, and related equipment - Determination of power consumption - Part 4: Video recording equipment	(0 ~ 2 200) W	BS-1	N
IEC 62087-5:2015	Audio, video, and related equipment - Determination of power consumption - Part 5: Set top boxes(STB)	(0 ~ 2 200) W	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 62087-6:2015	Audio, video, and related equipment - Determination of power consumption - Part 6: Audio equipment	(0 ~ 2 200) W	BS-1	N
IEC 62087:2011	Methods of measurement for the power consumption of audio video and related equipment	(0 ~ 2 200) W	BS-1	N
IEC 62301 Ed. 2.0:2011	Household Electrical Appliances - Measurement of Standby Power	100 W or less	BS-2	N
IEC 62301:2011	Household electrical appliances - Measurement of standby power	500 W or less	BS-1	N
IEC 62301:2011	Household electrical appliances - Measurement of standby power	Input Power : Max. 500 W	BS	N
IEC 62512:2012	Electric clothes washer - dryers for household use - Methods for measuring the performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
IEC 62552-1:2015	Household Refrigerating Appliances - Characteristics And Test Methods Part 1 : General Requirements	Input Power : Max. 10 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
IEC 62552-1:2015	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 - Characteristics and Test Methods Part 1 : General Requirements	(0 ~ 600) V (0 ~ 20) A	BS-1	N
IEC 62552-2:2015	Household Refrigerating Appliances - Characteristics And Test Methods Part 2 : Performance requirements	10 kW or less	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
IEC 62552-2:2015	Household Refrigerating Appliances - Characteristics And Test Methods Part 2 : Performance requirements	Input Power : Max. 10 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
IEC 62552-2:2015	Household Refrigerating Appliances - Characteristics and Test Methods Part 2 : Performance requirements	(0 ~ 600) V (0 ~ 20) A	BS-1	N
IEC 62552-3:2015	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 - Characteristics And Test Methods Part 3 : Energy consumption and volume	Input Power : Max. 10 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
IEC 62552-3:2015	Household Refrigerating Appliances - Characteristics and Test Methods Part 3 : Energy consumption and volume	(0 ~ 600) V (0 ~ 20) A	BS-1	N
IEC 62552:2007	Household refrigerating appliances - Characteristics and test methods	10 kW or less	BS-2	Y
IEC 62552:2007	Household refrigerating appliances - Characteristics and test methods	10 kW or less	BS-1	N
IEC 62552:2007	Household refrigerating appliances - Characteristics and test methods	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
ISO 13253:2017	Ducted air conditioners and heat pumps - Testing and rating for performance	(1 160 ~ 87 000) W	BS-2	N
ISO 13253:2017	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

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Test method	Standard designation	Test range	Site	Field testing
ISO 13256-1:1998	Water-source heat pumps - Testing and rating for performance - Part 1 : Water-to-air and brine-to-air heat pumps	(1 160 ~ 87 000) W	BS-2	N
ISO 13256-2:1998	Water-source heat pumps - Testing and rating for performance - Part 2 : Water-to-water and brine-to-water heat pumps	(1 160 ~ 87 000) W	BS-2	N
ISO 15042:2011	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	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-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
ISO 16358-1:2013	Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part1 : Cooling seasonal performance factor	(1 160 ~ 87 000) W	BS-2	N
ISO 16358-2:2013	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-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

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Test method	Standard designation	Test range	Site	Field testing
ISO 16358-3:2013	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
ISO 16358-3:2013	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 -Method of test for performance	5 000 Nm3/h or less	BS-2	N
ISO 5151:2010	Non-ducted air conditioners and heat pumps - Testing and rating for performance	(1 160 ~ 87 000) W	BS-2	Y
ISO 5151:2010	Non-ducted air conditioners and heat pumps - Testing and rating for performance	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
ISO 5151:2017	Non-ducted air conditioners and heat pumps - Testing and rating for performance	(1 160 ~ 87 000) W	BS-2	Y
ISO 5151:2017	Non-ducted air conditioners and heat pumps - Testing and rating for performance 5. Cooling tests 6. Heating tests	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
ISO/TS 16491:2012	Guidelines for the evaluation of uncertainty of measurement in air conditioner and heat pump cooling and heating capacity tests	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
JIS C 9220:2011	Residential Heatpump Water Heaters	(1 160 ~ 87 000) W	BS-2	N
JIS C 9612-1994	Room air conditioner	(1 160 ~ 87 000) W	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
JIS C 9612-2013	Room air conditioners	(1 160 ~ 87 000) W	BS-2	N
JIS C 9612:2013	Room air conditioners	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
KS 2449-1:2013	Rotating electrical machines - General requirements Part 1: Three-phase cage induction motors - Minimum energy performance standards (MEPS)	three phase : 600 V or less Power : 185 kW or less	BS-2	Y
KS 2463:2013	Non - ducted air conditioners - Testing and rating performance	(1 160 ~ 87 000) W	BS-2	N
KS 2464-1:2013	Performance of household electrical appliances- Refrigeration appliances Part 1: Energy consumption and performance	10 kW or less	BS-2	N
KS 2464-2:2013	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	Reciprocating water-chillers	(1 160 ~ 87 000) W	BS-2	N
KS B 6311:2017	Testing methods for industrial fans	3 600 m2/h or less	BS-2	N
KS B 6377:2008	Fancoil units	(1 160 ~ 30 000) W	BS-2	N
KS B 6879:2017	Heat recovery ventilators	3 000 m3/h or less	BS-2	N
KS B 8052:2011	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

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Test method	Standard designation	Test range	Site	Field testing
KS B 8053:2015	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 8292:2015	Water-to-water ground source heat pump unit	(1 160 ~ 30 000) W	BS-2	N
KS B 8293:2016	Water-to-air and brine-to-air heat pumps unit	(1 160 ~ 87 000) W	BS-2	N
KS B 8294:2016	Water-to-air ground source multi heat pump unit	(1 160 ~ 87 000) W	BS-2	N
KS B ISO 15042:2017	Multiple split-system air-conditioners and air-to-air heat pumps - Testing and rating for performance	(1 160 ~ 87 000) W	BS-2	N
KS B ISO 15042:2018	Multiple split-system air-conditioners and air-to-air heat pumps - Testing and rating for performance	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
KS C 8561:2020	Crystalline silicone photovoltaic(PV) module(performance)	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	BS-2	N
KS C 8562:2015	Thin film photovoltaic(PV) module(performance)	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	BS-2	N
KS C 8564:2020	Small scale photovoltaic inverter (grid-tied type, stand-alone type)	1 kW or more 10 kW or less (DC 1 000 V, AC 500 V)	BS-2	N
KS C 8565:2020	Medium and Large scale photovoltaic inverter (grid-tied type, stand-alone type)	10 kW or more 250 kW or less (DC 1 000 V, AC 500 V)	BS-2	N
KS C 8567:2019	Photovoltaic combiner box	DC 1 500 V or less	BS-2	N
KS C 8571:2015	Inverter for small wind turbines	30 kW or less (DC 1 000 V, AC 500 V)	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
KS C 8577:2016	Building integrated photovoltaics(BIPV) modules-The requirement of performance evaluation 6.15 Ball drop test 6.20 Fire test	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	SF-1	N
KS C 8577:2016	Building integrated photovoltaics(BIPV) modules-The requirement of performance evaluation 〈Exception〉 6.15 Ball drop test 6.20 Fire test	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	BS-2	N
KS C 9304:2002	Ventilating fans	3 600 m3/h or less	BS-2	N
KS C 9306:2017	Air-conditioner	(1 160 ~ 35 000) W	BS-2	N
KS C 9306:2017	Air-conditioner 9.3 Cooling Capacity tests 9.4 Energy consumption test for Cooling 9.7 Heating Capacity tests 9.8 Energy consumption test for Heating	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
KS C 9317:2013	Electric dehumidifier 6.1 Refrigerant Leaks 6.2 Dehumidifying capacity 6.3 Power Consumption 6.4 Temperature 6.5 Overload performance 6.6 Insulation Resistance 6.7 Withstand voltage 6.8 Low temperature performance 6.9 Dehumidifying water treatment 6.10 Insulation performance of overflowing water	500 W or less	BS-2	N
KS C 9608:2013	Electric washing machine	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
KS C IEC 60034-1:2008	Rotating electrical machines - Part 1: Rating and performance	single phase: 400 V or less three phase: 600 V or less Power: 375 kW or less	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60034-2-1:2008	Rotating electrical machines - Part 2-1: Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)	single phase: 400 V or less three phase: 600 V or less Power: 375 kW or less	BS-2	Y
KS C IEC 60034-2-1:2014	Rotating electrical machines - Part 2-1: Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)	single phase: 400 V or less three phase: 600 V or less Power: 280 kW or less	BS-2	Y
KS C IEC 60456:2015	Clothes washing machines for household use - methods for measuring the performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
KS C IEC 61215:2011	Crystalline Silicon Terrestrial Photovoltaic (PV) Modules - Design Qualification and Type Approval	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	BS-2	N
KS C IEC 61646:2015	Thin-film terrestrial photovoltaic (PV) modules - Design qualification and type approval	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	BS-2	N
KS C IEC 61730-1:2014	Photovoltaic (PV) module safety qualification - Part 1 : Requirements for construction	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	BS-2	N
KS C IEC 61730-2:2014	Photovoltaic (PV) module safety qualification - Part 2 : Requirements for testing 10.8 Fire test	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	SF-1	N
KS C IEC 61730-2:2014	Photovoltaic (PV) module safety qualification - Part 2 : Requirements for testing 〈Exception〉 10.8 Fire test	10 A / 120 V or less 20 A / 60 V or less 5 A / 150 V or less 2.5 A / 300 V or less	BS-2	N
KS C IEC 62301:2017	Household electrical appliances - Measurement of standby power	500 W or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 62552:2014	Household refrigerating appliances - Characteristics and test methods	(0 ~ 600) V (0 ~ 20) A	BS-1	N
KS C IEC 62552:2014	Household refrigerating appliances - Characteristics and test methods	10 kW or less	BS-2	N
KS C IEC 62552:2014	Household refrigerating appliances - Characteristics and test methods	Input Power : Max. 10 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
MS IEC 60456:2012	Clothes Washing machines for household use - Methods for measuring the performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
MS IEC 62301:2012	Household electrical appliance - Measurement of standby power	500 W or less	BS-1	N
MS IEC 62552:2011	Household refrigerating appliances - Characteristic and test methods	(0 ~ 600) V (0 ~ 20) A	BS-1	N
MS ISO 5151:2012	Non-ducted air conditioners and heat pumps - testing and rating for performance	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
NMX-J-585-ANCE-2007	HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES-TEST METHODS FOR ENERGY PERFORMANCE, WATER CONSUMPTION, AND CAPACITY OF HOUSEHOLD CLOTHES WASHERS	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
NMX-J-585-ANCE-2014	HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES-TEST METHODS FOR ENERGY PERFORMANCE, WATER CONSUMPTION, AND CAPACITY OF HOUSEHOLD CLOTHES WASHERS	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N

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Test method	Standard designation	Test range	Site	Field testing
NOM-005-ENER:2012	Energy efficiency of household washing machines. Limits, test method and labelling	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
NOM-005-ENER:2016	Energy efficiency of household washing machines. Limits, test method and labelling	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
NOM-011-ENER-2006	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	Energy efficiency of refrigerator and freezer appliances. limits, test methods and labeling	10 kW or less	BS-2	Y
NOM-021-ENER-SCFI-2017	Energy efficiency and user safety requirements for room air conditioners limts, test methods and labelling	(1 160 ~ 87 000) W	BS-2	Y
NOM-023-ENER-2010	Energy efficiency for separated assmbilies, free delivery and non-ducted air conditioners. limits, test methods and labelling	(1 160 ~ 87 000) W	BS-2	Y
NOM-026-ENER-2015	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
NTC 5913:2012	HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES. ELECTRIC WASHING MACHINES. TEST METHODS FOR ENERGY CONSUMPTION, WATER CONSUMPTION AND VOLUME CAPACITY	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N

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Test method	Standard designation	Test range	Site	Field testing
NTE INEN 2206:2011	Household refrigerating appliances with or without frosting. Refrigerators with or without low Temperature compartment. Inspection Requirements	Input Power : Max. 10 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
NTE INEN 2206:2011	Household refrigerating appliances with or without frosting. Refrigerators with or without low Temperature compartment. Inspection Requirements	10 kW or less	BS-2	N
NTE INEN 2206:2019	Household refrigerating appliances Requirements and test methods	(0 ~ 600) V (0 ~ 20) A	BS-1	N
NTE INEN 2495:2012	Energy efficiency of non-ducted air conditioners. Requirements	(1 160 ~ 87 000) W	BS-2	Y
NTE INEN 2659:2013	Appliances and similar. Clothes washing machine. Test methods for energy Consumption Water consumption and volumetric capacity.	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
RTE INEN 035:2009	Energy efficiency in refrigeration appliances for household use. Report power consumption test methods and labeling	Input Power : Max. 10 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
RTE INEN 035:2009	Energy efficiency in refrigeration appliances for household use. Report power consumption test methods and labeling	(0 ~ 600) V (0 ~ 20) A	BS-1	N
RTE INEN 035:2009	Energy efficiency in refrigeration appliances for household use. Report power consumption, test methods and labeling	10 kW or less	BS-2	N
RTE INEN 072:2012	Energy efficiency for non-ducted air conditioners	(1 160 ~ 87 000) W	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
RTE INEN 077:2013	Energy efficiency clothes washers household electric. limits test method and labeling	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
RTE INEN 111:2013	Energy efficiency and labeling of clothes dryers	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
RTE INEN 111:2014	Energy efficiency and labeling of clothes dryers	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
RTE INEN 117:2014	Energy efficiency in Television. Energy report test method and labeling	(0 ~ 5) kW	BS-1	N
RTE INEN 123:2014	Energy efficiency for microwave ovens	Input Power : Max. 3 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
RTE INEN 124:2014	Energy efficiency and labeling of washer dryer machine	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
Resolution 41012 of 2015 RETIQ	TECHNICAL LABELING REGULATIONS	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
SANS 50229:2010	Electric Clothes Washer-Dryers For Household Use - Methods Of Measuring The Performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
SANS 54511-3:2016	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

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Test method	Standard designation	Test range	Site	Field testing
SANS 54511-3:2016 (Ed 2.00)	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	Tumble Dryers For Household Use - Methods for Measuring The Performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
SANS 62552:2008	Household Refrigerating Appliances - Characteristics and Test Methods	(0 ~ 600) V (0 ~ 20) A	BS-1	N
SANS 62552:2008	Household Refrigerating Appliances -Characteristics and Test Methods	Input Power : Max. 10 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
SASO 2663:2014	Energy labelling and minimum energy performance requirements for air-conditioners	(1 160 ~ 87 000) W	BS-2	N
SASO 2663:2018	Air conditioners - minimum energy performance, labelling and testing requirements for low capacity	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
SASO 2664:2013	Energy Performance and Capacity of Household Refrigerators, Refrigerators - Freezers and Freezers	Input Power : Max. 10 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
SASO 2664:2013	Energy Performance and Capacity of Household Refrigerators, Refrigerators-Freezers, and Freezers	1 100 L or less	BS-2	N
SASO 2664:2017	Energy Performance and Capacity of Household Refrigerators, Refrigerators - Freezers and Freezers	(0 ~ 600) V (0 ~ 20) A	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
SASO 2681:2013	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	Non-ducted air conditioners and heat pumps- testing and rating performance	(1 160 ~ 87 000) W	BS-2	N
SASO 2682:2013	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	Ducted air-conditioners and air-to-air heat pumps- testing and rating for performance	(1 160 ~ 87 000) W	BS-2	N
SASO 2683:2007	Clothes washing machines for household use - Methods for measuring the performance	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
SASO 2692:2013	Energy Labelling Requirement of Clothes Washing Machines for Household Use	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
SASO 2693:2007	Method for Measuring the Performance of Clothes Washing for Household Use	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
SASO 2763:2008	Safety and performance requirements for Window air-conditioners and their method of test	Cooling/Heating capacity (2 900 ~ 18 600) W	BS-1	N
SASO 2763:2008	Safety and performance requirements for window air-conditioners and their method of test	(1 160 ~ 20 000) W	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
SASO 2870:2018	ENERGY EFFICIENCY, FUNCTIONALITY AND LABELLING REQUIREMENTS FOR LIGHTING PRODUCTS - PART 1	Indirect and direct general light sources having a luminous flux above 60 lumens or below 12 000 lumens of the following technologies: · Incandescent lamps · Compact fluorescent lamps with integrated ballast(CFLi) · Halogen lamps · Light-emitting diode(LED) lamps (Incandescent retrofit types) · Light-emitting diode(LED) lamps (Halogen retrofit types)	BS-1	N
SASO 2874:2016	Commercial Air Conditioners - Minimum Energy Performance Requirements and Testing Requirements	(1 160 ~ 87 000) W	BS-2	N
SASO 2883:2017	Electrical Clothes Dryers - Energy Performance Requirements and Labelling	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
SASO 2885:2018	Electrical Clothes Washing Machines - Energy and Water Performance Requirements and Labelling	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
SASO 2893:2018	ROTATING ELECTRICAL MACHINES - Part 30-1: Efficiency classes of line operated AC motors (IE code) (IEC 60034-30-1:2014 Ed 1.0, MOD)	three phase: 600 V or less Power: 280 kW	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
SASO 2902:2018	ENERGY EFFICIENCY, FUNCTIONALITY AND LABELLING REQUIREMENTS FOR LIGHTING PRODUCTS PART 2	Lamps and luminaires with a luminous flux above 60 lumens, and control gears(ballasts) · Incandescent lamps with a luminous flux above 12 000 lumens · Halogen lamps with a luminous flux above 12 000 lumens · Compact fluorescent lamps with integrated ballast(CLFi) with a luminous flux above 12 000 Lumens · Compact fluorescent lamps without integrated ballast(CFLni) · Fluorescent Lamps(all types) · High Intensity Discharge Lamps, such as: Mercury Vapour Lamps, High/Low Pressure Sodium Lamps, Quartz Metal Halide Lamps, Ceramic Metal Halide Lamps · LED Lamps (including retrofit LED lamps with a luminous flux above 12 000 Lumens))	BS-1	N
SASO-IEC-60034-2-1:2007	Rotating electrical machines - Part 2-1: Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)	single phase: 400 V or less three phase: 600 V or less Power: 375 kW or less	BS-2	Y
SASO-IEC-60034-30:2013	Rotating electrical machines - Part 30: Efficiency classes of single-Speed, three-phase, cage-induction motors (IE-code)	single phase: 400 V or less three phase: 600 V or less Power: 375 kW or less	BS-2	Y

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Test method	Standard designation	Test range	Site	Field testing
TCVN 7450-1:2013	High efficiency three-phase asynchronous squirrel cage electrical motors - Part 1: Minimum energy performance	single phase: 400 V or less three phase: 600 V or less Power: 375 kW or less	BS-2	Y
TCVN 7450-2:2013	High efficiency three-phase asynchronous squirrel cage electrical motors - Part 2: Methods for determination of performance	single phase: 400 V or less three phase: 600 V or less Power: 375 kW or less	BS-2	Y
TCVN 7627:2007	Refrigerating Equipment appliances - Characteristics and test methods	(0 ~ 600) V (0 ~ 20) A	BS-1	N
TCVN 7627:2007	Refrigerating Equipment appliances -Characteristics and test methods	Input Power : Max. 10 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
TCVN 7828:2013	Refrigerator refrigerator - freezer - Energy Efficiency	Input Power : Max. 10 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
TCVN 7828:2016	Refrigerator refrigerator - freezer - Energy Efficiency	(0 ~ 600) V (0 ~ 20) A	BS-1	N
TCVN 7828:2016	Refrigerator, refrigerator-freezer - Energy Efficiency	1 000 L or less	BS-2	N
TCVN 7829:2013	Refrigerator refrigerator - freezer - Method for determination of energy Efficiency	Input Power : Max. 10 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
TCVN 7829:2016	Refrigerator refrigerator - freezer - Method for determination of energy Efficiency	(0 ~ 600) V (0 ~ 20) A	BS-1	N
TCVN 7829:2016	Refrigerator, refrigerator-freezer - Method for determination of energy Efficiency	1 000 L or less	BS-2	N
TCVN 7830:2007	Air - conditioners - Energy efficiency Ratio	(1 160 ~ 14 000) W	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
TCVN 7830:2012	Non-Ducted air conditioner-Energy efficiency	(1 160 ~ 14 000) W	BS-2	N
TCVN 7830:2015	Non - ducted air conditioners - Energy efficiency	(1 160 ~ 14 000) W	BS-2	N
TCVN 7831:2012	Non-Ducted air conditioner-Method for determination of energy efficiency	(1 160 ~ 87 000) W	BS-2	N
TCVN 8526:2013	Electric washing machine -Minimum energy performance and method for determination of energy efficiency	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
TCVN 9508:2012	Computer monitors. Energy Efficiency Ratio	Input Voltage : 230 V, Input Power : Max. 1 000 W, Frequency : 50 Hz	BS-1	N
TCVN 9536:2012	Television sets. Energy efficiency	Input Voltage : 230 V, Input Power : Max. 1 000 W, Frequency : 50 Hz	BS-1	N
TCVN 9537:2012	Television sets. Method for determination of energy efficiency	Input Voltage : 230 V, Input Power : Max. 1 000 W, Frequency : 50 Hz	BS-1	N
UAE.S 5010 2:2013	Labeling- Energy efficiency label for electrical appliances Part 2 : Washing machines and dryers	Input Power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N
UAE.S 5010-1:2016	Labeling-Energy efficiency label for electrical appliances Part : 1 : household air conditioners	(1 160 ~ 87 000) W	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2017-91(27.06.2017.)	e-Standby Program Application Regulation Annex 1-1 Computer Annex 1-2 Monitor Annex 1-3 Printer Annex 1-4 Fax Annex 1-5 Duplicator Annex 1-6 Scanner Annex 1-7 combination color printer, scanner, and fax machine Annex 1-8 Automatic power-saving control system Annex 1-10 Audio Annex 1-11 DVD player Annex 1-12 Radio Cassette Annex 1-13 Microwave Annex 1-15 Door Phone Annex 1-16 Wired and wireless telephone Annex 1-17 Bidet	500 W or less 153 cm or less 3 000 W or less 3 000 W or less 5 000 W or less 1 000 W or less 5 000 W or less - 1 000 W or less 150 W or less 1 000 W or less 4 000 W or less 100 W or less 150 W or less 2 000 W or less	BS-1	N
MOTIE Notice No.2020-10(31.01.2020.)	Regulation on Promotion and Dissemination of High Energy Efficiency Appliances Annex 1.10. Thermo-hygrostat Annex 1.12. Gas Heat Pump	6 kW or more ~ 35 kW or less 23 kW or more	BS-2	N
MOTIE Notice No.2020-10(31.01.2020.)	Regulation on Promotion and Dissemination of High Energy Efficiency Appliances Annex 1.13 ESS	The ESS must be capable of continuously supplying loads at rated power (kW) for 2 hours or more	BS-2	Y
MOTIE Notice No.2020-10(31.01.2020.)	Regulation on Promotion and Dissemination of High Energy Efficiency Appliances Annex 1.5. Inverter	220 kW or less	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2020-83(26.05.2020.)	Regulation on Energy Efficiency Labeling and Standards Annex 1.1 Electric refrigerator Annex 1.3 Electric refrigerating appliance for KIM-CHI Annex 1.4 Electric air conditioner Annex 1.21 Electric heat pump Annex 1.27 Electric fan heater Annex 1.28 Eletric stove Annex 1.29 Electric multi-split air-conditioning and heat pump system Annex 1.30 Dehumidifiers	1 000 L or less 1 000 L or less 7.5 kW or less 30 kW or less 500 W or more ~ 10 kW or less (500 ~ 10 000) W 1 kW or more ~ 70 kW or less 1 000 W or less	BS-2	N
MOTIE Notice No.2020-83(26.05.2020.)	Regulation on Energy Efficiency Labeling and Standards Annex 1.18 Three-phase induction motor	0.75 kW or more ~ 375 kW or less	BS-2	N
MOTIE Notice No.2020-83(26.05.2020.)	Operating rules of management efficiency machine materials Annex 1-1 Electric refrigerator Annex 1-3 Electric refrigerating appliance for KIM-CHI Annex 1-5 Electric washing machine Annex 1-28 Electric stove Annex 1-36 Electric Range Annex 1-43 Clothes dryer	1 000 L or less 1 000 L or less 2 kg or more ~ 25 kg or less 500 W or more ~ 10 kW or less 1 kW or more ~ 10 kW or less Input power : Max. 5 kW Input Voltage : Single Phase Max. 250 V Frequency : 50/60 Hz	BS	N

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Test method	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2020-83(26.05.2020.)	Operating rules of management efficiency machine materials Annex 1-1 Electric refrigerator Annex 1-3 Electric refrigerating appliance for KIM-CHI Annex 1-4 Electric air conditioner Annex 1-9 Electric hot and cold water dispenser Annex 1-10 Electric rice cooker Annex 1-11 Electric vacuum cleaner Annex 1-12 Electric fan Annex 1-14 Incandescent Lamp Annex 1-15 Fluorescent lamp Annex 1-17 Self-ballasted lamp Annex 1-20 Adaptorharger Annex 1-21 Electric heat pump Annex 1-22 Commercial electric refrigerator Annex 1-26 Televisions Annex 1-28 Electric stove Annex 1-36 Electric Range Annex 1-37 Set top box Annex 1-38 Self-ballasted LED lamps Annex 1-39 Non-ballasted LED lamps	1 000 L or less 1 000 L or less 7.5 kW or less 1 000 W or less 20 cabins or less 800 W or more ~ 2 500 W or less 20 cm or more ~ 41 cm or less 25 W or more ~ 150 W or less 13 W or more ~ 55 W or less 5 W or more ~ 60 W or less 150 W or less 30 kW or less 300 L or more ~ 2 000 L or less 50 cm or more ~ 180 cm or less 500 W or more ~ 10 kW or less 1 kW or more ~ 10 kW or less 150 W or less AC 1 000 V or less AC 1 000 V or less	BS-1	N

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Test method	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2020-10(31.01.2020.)	Regulation on Promotion and Dissemination of High Energy Efficiency Appliances Annex 1-9. LED Guide light Annex 1-15. LED module for channel letter signs Annex 1-20. LED Lighting fixtures Annex 1-21. LED lamp	5 W or less DC 50 V or less AC 220 V, 60 Hz(Indoor,Outdoor) AC 1 000 V or less, 700 W or 1 000 W (PLS Light fixture) AC 220 V, 60 Hz, 150 W or less(Ultra Constant Discharge (UCD) Lamp lighting) AC 220 V, 60 Hz(Induction fluorescent lamp lighting) 22 W or less(Intuitive LED lamp) 55 W or less(Fluorescent Lamp Replacement Type LED Lamp)	BS-1	N

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03. Electrical Testing

03.014 Environmental and Reliability Test

Test method	Standard designation	Test range	Site	Field testing
ECSS-E-10-03A:2002	Space Engineering - Testing 5.1.15 Thermal vacuum test, equipment qualification 5.1.16 Thermal cycling test, equipment qualification 5.3.5 Thermal qualification tests 6.1.10 Thermal vacuum test 6.1.11 Thermal cycling test, equipment acceptance 6.3.5 Thermal acceptance tests 5.1.10 Sinusoidal vibration test, equipment qualification 5.1.11 Random vibration test, equipment qualification 6.1.7 Random vibration test 5.1.13 Shock test, equipment qualification	(9.3×10^-4 ~ 5.3×10^-2) Pa (-70 ~ 120) ℃ (5 ~ 2 000) Hz (100 ~ 10 000) Hz	BS-6	N
ECSS-E-ST-10-03C:2012	Space Engineering - Testing 5.5.4 Thermal tests 6.5.4 Thermal tests 5.5.2.3 Random vibration test 5.5.2.5 Sinusoidal vibration test 6.5.2.7 Random vibration test 6.5.2.8 Sinusoidal vibration test 5.5.2.6 Shock test 6.5.2.9 Shock test	(9.3×10^-4 ~ 5.3×10^-2) Pa (-70 ~ 120) ℃ (5 ~ 2 000) Hz (100 ~ 10 000) Hz	BS-6	N

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Test method	Standard designation	Test range	Site	Field testing
GMW14872:2013	Cyclic Corrosion Laboratory Test	Salt solution : 0.9 % NaCl, 0.1 % CaCl2, 0.075 % NaHCO3 Conditions : Ambient (25 ± 3) ℃, 45 % R.H. Humid (49 ± 2) ℃, ~ 100 % R.H. Dry (60 ± 2) ℃, ≤30 % R.H.	BS-2	N
IACS UR E10:2018	Test specification for type approval 1. Visual inspection 2. Performance test 5. Dry heat 6. Damp heat 7. Vibration 8. Inclination 11. Cold	High Temperature : (55 ~ 70) ℃ Low Temperature : (-25 ~ 5) ℃ Temperature range : (55 ~ 90) ℃ Humidity range : (92 ~ 98) % R.H. Vibration Waveform : sine Frequency : (2 ~ 100) Hz Amplitude(p-p) : 1.6 mm Acceleration : 40 m/s² Max tilt angle : 22.5 °	BS-2	N
IEC 60068-2-11:1981	Basic environmental testing procedures Part 2 : Tests Test Ka : Salt mist	Salt concentration : (5 ± 1) % Exposure zone : (35 ± 2) ℃ PH : 6.5 ~ 7.2 (1.0 ~ 2.0) ㎖/h	BS-2	N
IEC 60068-2-13:1983	Environmental testing - Part 2 : Tests. Test M : Low air pressure	Altitude : 0 km ~ 21 km	BS-2	N
IEC 60068-2-13:1983	Environmental testing - Part 2 : Tests - Test M : Low air pressure	Altitude : (0 ~ 21) km	BS	N
IEC 60068-2-14:2009	Environmental testing - Part 2 : Tests - Test N : Change of Temperature	High Temperature : (60 ~ 180) ℃ Low Temperature : (-85 ~ 0) ℃	BS	N
IEC 60068-2-14:2009	Environmental testing - Part 2 : Tests. Test N : Change of Temperature	High Temperature : (60 ~ 180) ℃ Low Temperature : (-75 ~ 0) ℃	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60068-2-18:2017	Environmental testing - Part 2 : Tests Test R and guidance : Water - Method Ra2 : Drip box - Method Rb1 : Oscillating tube and spray nozzle - Method Rc1 : Water tank	Ra2 : IPX1, IPX2 Rb1 : IPX3, IPX4 Rc1 : 1 000 mm	BS-2	N
IEC 60068-2-1:2007	Environmental testing - Part 2 : Tests - Tests A : Cold	Temperature : -60 ℃	BS	N
IEC 60068-2-1:2007	Environmental testing - Part 2 : Tests. Tests A : Cold	Low Temperature : -60 ℃	BS-2	N
IEC 60068-2-27:2008	Environmental testing. Part 2 : Tests. Test Ea and guidance : Shock	Pulse shape : half-sine/trapezoidal pulse Maximum peak acceleration : 30 000 m/s^2 Minimum pulse duration : 0.3 ms	BS-2	N
IEC 60068-2-2:2007	Environmental testing - Part 2 : Tests. Tests B : Dry heat	High Temperature : 200 ℃	BS-2	N
IEC 60068-2-2:2007	Environmental testing - Part 2 : Tests - Tests B : Dry heat	Temperature : 200 ℃	BS	N
IEC 60068-2-30:2005	Environmental testing - Part 2 : Tests. Test Db and guidance : Damp heat, cyclic (12+12-hour cycle)	Temperature range : (10 ~ 90) ℃ Humidity range: (20 ~ 98) % R.H.	BS-2	N
IEC 60068-2-31:2008	Environmental testing - Part 2 : Tests. Test Ec : Rough handling shocks, primarily for equipment-type specimens	Test surface : steel Fall height : 1.83 m or less	BS-2	N
IEC 60068-2-38:2009	Environmental testing - Part 2 : Tests. Test Z/AD : Composite Temperature/humidity cyclic test	Temperature range : (10 ~ 90) ℃ Humidity range: (20 ~ 98) % R.H.	BS-2	N
IEC 60068-2-38:2009	Environmental testing - Part 2 : Tests - Test Z/AD : Composite Temperature/humidity cyclic test	Temperature range : (10 ~ 90) ℃ Humidity range : (20 ~ 98) % R.H.	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60068-2-52:1996	Environmental testing - Part 2 : Tests - Test Kb : Salt mist, cyclic (sodium chloride solution)	Salt concentration : (5 ± 1) % Exposure zone : (35 ± 2) ℃ PH : 6.5 ~ 7.2 (1.0 ~ 2.0) ㎖/h	BS-2	N
IEC 60068-2-5:2010	Environmental testing - Part 2 : Tests. Test Sa : Simulated solar radiation at ground level	Temperature range : (-45 ~ 180) ℃ Humidity range: (10 ~ 98) % R.H. Total solar radiation : 1 120 W/m²	BS-2	N
IEC 60068-2-64:2008	Environmental testing - Part 2 : Test methods - Test Fh : Vibration, broad-band random and guidance	Frequency : 5 Hz ~ 3 kHz Peak amplitude(P-P) : 50.8 mm Peak acceleration : 735 m/s²	BS-2	N
IEC 60068-2-64:2008	Environmental testing - Part 2 : Test methods - Test Fh : Vibration, broad-band random and guidance	Frequency : 5 Hz ~ 2.6 kHz Maximum Amplitude : 100 mm(p-p) Maximum Acceleration : 857 m/s²	BS	N
IEC 60068-2-66:1994	Environmental testing - Part 2 : Test methods - Test Cx : Damp heat, steady state (unsaturated pressurized vapour)	Temperature : (110, 120, 130) ℃ Humidity : 85 % R.H.	BS-2	N
IEC 60068-2-67:1995	Environmental testing - Part 2 : Tests - Test Cy : Damp heat, steady state, accelerated test primarily intended for components	Temperature : (10 ~ 90) ℃ Humidity : (20 ~ 98) % R.H.	BS-2	N
IEC 60068-2-6:2007	Environmental testing - Part 2 : Tests - Test Fc : Vibration (sinusoidal)	Frequency : 2 Hz ~ 3 kHz Peak amplitude(P-P) : 50.8 mm Peak acceleration : 735 m/s²	BS-2	N
IEC 60068-2-6:2007	Environmental testing - Part 2 : Tests - Test Fc : Vibration (sinusoidal)	Frequency : 5 Hz ~ 2.6 kHz Maximum Amplitude : 100 mm(p-p) Maximum Acceleration : 857 m/s²	BS	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 60068-2-78:2012	Environmental testing - Part 2-78 : Tests - Test Cab : Damp heat, steady state	Temperature : (10 ~ 90) ℃ Humidity : (20 ~ 98) % R.H.	BS-2	N
IEC 60068-2-80:2005	Environmental testing - Part 2-80 : Tests - Test Fi : Vibration - Mixed mode	Frequency : 5 Hz ~ 3 kHz Peak amplitude(P-P) : 50.8 mm Peak acceleration : 735 m/s^2	BS-2	N
IEC 60255-21-1:1988	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 Amplitude(z-p): Max 0.075 mm Acceleration: Max 19.6 m/s^2	BS-2	N
IEC 60255-21-2:1988	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^2 Duration : Max 16 ms	BS-2	N
IEC 60255-21-3:1993	Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 3: Seismic tests 4 Requirements for single axis sine sweep seismic test(method A)	Frequency : (1 ~ 35) Hz Acceleration : (0.5 ~ 2.0) gn	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
IEC 61373:2010	Railway applications — Rolling stock equipment — Shock and vibration tests	Functional random test Vertical: (0.750 ~ 38.0) m/s^2 Transverse: (0.370 ~ 34.0) m/s^2 Longitudinal: (0.500 ~ 17.0) m/s^2 Simulated long-life test (5-hour test) Vertical: (4.25 ~ 144) m/s^2 Transverse: (2.09 ~ 129) m/s^2 Longitudinal: (2.83 ~ 64.3) m/s^2 Shock test Vertical: (30 ~ 1,000) m/s^2 Transverse: (30 ~ 1,000) m/s^2 Longitudinal: (50 ~ 1,000) m/s^2	BS-2	N
IEC 61850-3: 2013	Communication networks and systems for power utility automation - Part 3: General requirements 6.9.3 Climatic environmental tests 6.10.1 Vibration response and endurance(sinusoidal) 6.10.2 Shock response, shock withstand and bump	High Temperature : Max 200 ℃ Low Temperature : Min -65 ℃ Humidity: Max 97 % Frequency: (10 ~ 150) Hz Amplitude(z-p): Max 0.075 mm Acceleration: Max 19.6 m/s^2 Acceleration: Max 294 m/s^2 Duration: Max 16 ms	BS-2	N
JESD22-A101D:2015	Steady State Temperature Humidity Bias Life Test	Temperature : (10 ~ 90) ℃ Humidity : (20 ~ 98) % R.H.	BS-2	N
JESD22-A102E:2015	Accelerated Moisture Resistance-Unbiased Autoclave	Temperature : 121 ℃	BS-2	N
JESD22-A103E:2015	High Temperature Storage Life Condition A Condition B Condition C Condition D	Temperature : (30 ~ 200) ℃	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
JESD22-A104E:2014	Temperature Cycling	High Temperature : (60 ~ 180) ℃ Low Temperature : (-75 ~ 0) ℃	BS-2	N
JESD22-A105D:2020	Power and Temperature Cycling	Temperature : (-40 ~ 125) ℃	BS-2	N
JESD22-A108F:2017	Temperature, Bias, and Operating Life	Temperature : (-40 ~ 160) ℃	BS-2	N
JESD22-A110E:2015	Highly Accelerated Temperature and Humidity Stress Test (HAST)	Temperature : (110 ~ 130) ℃ Humidity : (85 ~ 100) % R.H.	BS-2	N
JESD22-A118B:2015	Accelerated Moisture Resistance - Unbiased HAST	Temperature : (110 ~ 130) ℃ Humidity : (85 ~ 100) % R.H.	BS-2	N
JESD22-A119A:2015	Low Temperature Storage Life	Temperature : (-40 ~ -65) ℃	BS-2	N
KS C 5078:2015	Video data recording systems for road vehicle accidents 〈Exception〉 7.2.1.4 Power line transition emission test, radiation emission test, radiation immunity test 7.2.4.2 Integrity Functional Verification of Accident Record Information	DC Voltage : (10 ~ 36) V Accident simulation test acceleration : (14.7 ~ 19.6) m/s^2 Lens angle : Horizontal angle 80 °, Vertical angle 50 ° Measuring distance : (1 ~ 2) m Light intensity : (4 ~ 400) lx Low temperature : (-20 ± 3) ℃ High temperature : (70 ± 2) ℃ Temperature tolerance : (85 ± 2) ℃ Vibration range : (5 ~ 200) Hz Vibration acceleration : 44.1 m/s^2 Shock range : 490 m/s^2 , 11 ms	BS-2	N
KS C IEC 60068-2-13:1983	Environmental testing - Part 2-13 : Tests - Test M : Low air pressure	Altitude : (0 ~ 21) km	BS	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60068-2-13:2014	Environmental testing - Part 2-13 : Tests - Test M : Low air pressure	Height : 0 km ~ 21 km	BS-2	N
KS C IEC 60068-2-14:2009	Environmental testing - Part 2-14 : Tests - Test N : Change of Temperature	High Temperature : (60 ~ 180) ℃ Low Temperature : (-85 ~ 0) ℃	BS	N
KS C IEC 60068-2-14:2014	Environmental testing - Part 2-14 : Tests - Test N : Change of Temperature	High Temperature : (60 ~ 180) ℃ Low Temperature : (-75 ~ 0) ℃	BS-2	N
KS C IEC 60068-2-1:2007	Environmental testing - Part 2-1 : Tests - Tests A : Cold	Temperature : -60 ℃	BS	N
KS C IEC 60068-2-1:2010	Environmental testing - Part 2-1 : Tests - Test A : Cold	Temperature : (0 ~ 60) ℃	BS-2	N
KS C IEC 60068-2-27:2017	Basic Environmental testing - Part 2-27 : Tests - Test Ea and guidance : Shock	Pulse shape : half-sine/sine Peak acceleration : 5 000 g Duration : 0.3 ms	BS-2	N
KS C IEC 60068-2-2:2007	Environmental testing - Part 2-2 : Tests - Tests B : Dry heat	Temperature : 200 ℃	BS	N
KS C IEC 60068-2-2:2014	Environmental testing - Part 2-2 : Tests - Test B : Dry heat	High Temperature : 200 ℃	BS-2	N
KS C IEC 60068-2-30:2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	Temperature range:(10 ~ 90) ℃ Humidity range:(20 ~ 98) % R.H.	BS	N
KS C IEC 60068-2-30:2005	Environmental testing - Part 2-30: Tests - Test Db : Damp heat, cyclic (12 h+12 h cycle)	Temperature : (10 ~ 55) ℃ Humidity : (20 ~ 98) % R.H.	BS-2	N
KS C IEC 60068-2-31:2014	Environmental testing - Part 2-31 : Tests - Test Ec : Rough handling shocks, primarily for equipment-type specimens	Floor : Iron plate Height : 1.83 m or less	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60068-2-38:2008	Environmental testing - Part 2-38 : Tests - Test Z/AD : Composite Temperature/humidity cyclic test	Temperature range : (10 ~ 90) ℃ Humidity range : (20 ~ 98) % R.H.	BS	N
KS C IEC 60068-2-38:2014	Environmental testing - Part 2-38 : Tests - Test Z/AD : Composite Temperature/humidity cyclic test	Temperature : (10 ~ 55) ℃ Humidity : (20 ~ 98) % R.H.	BS-2	N
KS C IEC 60068-2-52:2010	Environmental testing - Part 2 : Tests - Test Kb : Salt mist, cyclic (sodium chloride solution)	Salt concentration : (5 ± 1) % Exposure zone : (35 ± 2) ℃ PH : 6.5 ~ 7.2	BS-2	N
KS C IEC 60068-2-5:2017	Environmental testing - Part 2-5 : Tests - Test Sa : Simulated solar radiation at ground level	Temperature : (-40 ~ 150) ℃ Solar Radiation : 1 120 W/m^2	BS-2	N
KS C IEC 60068-2-64:2008	Environmental testing - Part 2-64 : Test methods - Test Fh : Vibration, broad-band random and guidance	Frequency : 5 Hz ~ 2.6 kHz Maximum Amplitude : 100 mm(p-p) Maximum Acceleration : 857 m/s^2	BS	N
KS C IEC 60068-2-64:2014	Environmental testing - Part 2-64 : Tests - Test Fh: Vibration, broadband random and guidance	Frequency : 5 Hz ~ 3 kHz Amplitude(P-P) : 50.8 mm Acceleration : 735 m/s^2	BS-2	N
KS C IEC 60068-2-66:2002	Environmental testing - Part 2-66 : Test methods - Test Cx : Damp heat, steady state(unsaturated pressurized vapour)	Temperature : (110, 120, 130) ℃ Humidity : 85 % R.H.	BS-2	N
KS C IEC 60068-2-67:2002	Environmental testing - Part 2-67 : Tests - Test Cy : Damp heat, steady state, accelerated test primarily intended for components	Temperature : (10 ~ 90) ℃ Humidity : (20 ~ 98) % R.H.	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60068-2-6:2015	Environmental testing - Part 2-6 : Tests - Test Fc : Vibration (sinusoidal)	Frequency : 5 Hz ~ 2.6 kHz Maximum Amplitude : 100 mm(p-p) Maximum Acceleration : 857 m/s^2	BS	N
KS C IEC 60068-2-6:2015	Environmental testing - Part 2-6 : Tests - Test Fc : Vibration(sinusoidal)	Frequency : 2 Hz ~ 3 kHz Amplitude(P-P) : 50.8 mm Acceleration : 735 m/s^2	BS-2	N
KS C IEC 60068-2-78:2012	Environmental testing - Part 2-78 : Tests - Test Cab : Damp heat, steady state	Temperature : (10 ~ 90) ℃ Humidity : (20 ~ 98) % R.H.	BS-2	N
KS C IEC 60068-2-78:2012	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	Temperature range:(10 ~ 90) ℃ Humidity range:(20 ~ 98) % R.H.	BS	N
KS C IEC 60068-2-80:2010	Environmental testing - Part 2-80 : Tests - Test Fi : Vibration - Mixed mode	Frequency : 5 Hz ~ 3 kHz Amplitude(P-P) : 50.8 mm Acceleration : 735 m/s^2	BS-2	N
KS C IEC 60255-21-1:2002	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 Amplitude(z-p): Max 0.075 mm Acceleration : Max 19.6 m/s^2	BS-2	N
KS C IEC 60255-21-2:1988	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^2 Duration : Max 16 ms	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60255-21-3:1993	Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 3: Seismic tests 4 Requirements for single axis sine sweep seismic test(method A)	Frequency : (1 ~ 35) Hz Acceleration : (0.5 ~ 2.0) gn	BS-2	N
KS C IEC 61373:2010	Railway applications — Rolling stock equipment — Shock and vibration tests	Functional random test Vertical: (0.750 ~ 38.0) m/s^2 Transverse: (0.370 ~ 34.0) m/s^2 Longitudinal: (0.500 ~ 17.0) m/s^2 Simulated long-life test (5-hour test) Vertical: (4.25 ~ 144) m/s^2 Transverse: (2.09 ~ 129) m/s^2 Longitudinal: (2.83 ~ 64.3) m/s^2 Shock test Vertical: (30 ~ 1,000) m/s^2 Transverse: (30 ~ 1,000) m/s^2 Longitudinal: (50 ~ 1,000) m/s^2	BS-2	N
KS C IEC 61850-3:2013	Communication networks and systems for power utility automation - Part 3: General requirements 6.9.3 Climatic environmental tests 6.10.1 Vibration response and endurance(sinusoidal) 6.10.2 Shock response, shock withstand and bump	High Temperature: Max 200 ℃ Low Temperature: Min -65 ℃ Humidity: Max 97 % Frequency: (10 ~ 150) Hz Amplitude(z-p): Max 0.075 mm Acceleration: Max 19.6 m/s^2 Acceleration: Max 294 m/s^2 Duration: Max 16 ms	BS-2	N
KS D 9502:2020	Neutral, acetic acid and copper- accelerated actic acid salt spray	Salt concentration : (5 ± 1) % Exposure zone : (35 ± 2) ℃ PH : 6.5 ~ 7.2 (1.5 ± 0.5) ㎖/h	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
KS R 9144:2014	Test methods for vibration of parts of railway rolling stock	Frequency : 5 Hz ~ 3 kHz Amplitude(P-P) : 50.8 mm Acceleration : 735 m/s^2	BS-2	N
MIL-STD 1540C:1994	TEST REQUIREMENTS FOR LAUNCH, UPPER-STAGE, AND SPACE VEHICLES 6.1.3 Thermal Vacuum and Thermal Cycle Tests 6.2.7 Thermal Cycle Test, Vehicle Qualification 6.2.9 Thermal Vacuum Test, Vehicle Qualification 6.3.4 Thermal Vacuum Test, Subsystem Qualification 6.4.2 Thermal Cycle Test, Electrical and Electronic Unit Qualification 6.4.3 Thermal Vacuum Test, Unit Qualification 7.2.7 Thermal Cycle Test, Vehicle Acceptance 7.2.8 Thermal Vacuum Test, Vehicle Acceptance 7.4.2 Thermal Cycle Test, Electrical and Electronic Unit Acceptance 7.4.3 Thermal Vacuum Test, Unit Acceptance	(9.3×10^-4 ~ 5.3×10^-2) Pa (-70 ~ 120) ℃	BS-6	N
	6.2.5 Vibration Test, Vehicle Qualification 6.3.2 Vibration Test, Subsystem Qualification 6.4.4 Vibration Test, Unit Qualification 7.2.5 Vibration Test, Vehicle Acceptance	(5 ~ 2 000) Hz		
	7.4.4 Vibration Test, Unit Acceptance	(100 ~ 10 000) Hz		
	6.2.3 Shock Test, Vehicle Qualification 6.4.6 Shock Test, Unit Qualification 7.2.3 Shock Test, Vehicle Acceptance 7.4.6 Shock Test, Unit Acceptance			

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Test method	Standard designation	Test range	Site	Field testing
MIL-STD 202H:2015	107 Thermal shock Condition A Condition B Condition C Condition F	 (-55 ~ 93) ℃ (-65 ~ 90) ℃ (-65 ~ 205) ℃ (-65 ~ 153) ℃	BS-6	N
MIL-STD 750-1A:2019	1051 Temperature cycling Condition A Condition B Condition C Condition D Condition F Condition G	 (-55 ~ 95) ℃ (-55 ~ 140) ℃ (-55 ~ 190) ℃ (-65 ~ 215) ℃ (-65 ~ 165) ℃ (-55 ~ 165) ℃	BS-6	N
MIL-STD 810F:2000	DEPARTMENT DEFENCE TEST METHOD STANDARD FOR ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS METHOD 500.4 Low Pressure (Altitude) 〈Exception〉 Procedure III, Procedure IV METHOD 501.4 High Temperature METHOD 502.4 Low Temperature METHOD 514.5 VIBRATION 〈Exception〉 Category 4 - Truck/trailer/tracked - restrained cargo Category 5 - Truck/trailer/tracked - loose cargo	 (9.3×10^-4 ~ 5.3×10^-2) Pa (-70 ~ 120) ℃ (5 ~ 2 000) Hz	BS-6	N

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Test method	Standard designation	Test range	Site	Field testing
MIL-STD 810G:2008	DEPARTMENT DEFENCE TEST METHOD STANDARD FOR ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS METHOD 500.5 Low Pressure (Altitude) 〈Exception〉 Procedure III, Procedure IV METHOD 501.5 High Temperature METHOD 502.5 Low Temperature METHOD 514.6 VIBRATION 〈Exception〉 Category 4 - Truck/Trailer - Secured Cargo Category 5 - Truck/trailer - loose cargo	(9.3×10^-4 ~ 5.3×10^-2) Pa (-70 ~ 120) ℃ (5 ~ 2 000) Hz	BS-6	N
MIL-STD 883L:2019	1010 Temperature cycling Condition A Condition B Condition C Condition D Condition F	(-65 ~ 90) ℃ (-65 ~ 140) ℃ (-75 ~ 165) ℃ (-75 ~ 215) ℃ (-75 ~ 190) ℃	BS-6	N

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Test method	Standard designation	Test range	Site	Field testing
MIL-STD-810D:1983	Environmental test methods and engineering guidelines 500.2 Low Pressure (Altitude) Procedure I - Storage Procedure II - Operation 501.2 High Temperature 502.2 Low Temperature 503.2 Temperature Shock 505.2 Solar Radiation(Sunshine) 507.2 Humidity 509.2 Salt Fog 512.2 Leakage(Immersion) Procedure I - Basic leakage 514.3 Vibration Procedure I - General vibration 516.3 Shock Procedure I - Functional Shock Procedure IV - Transit drop	Altitude : 4 572 m (57.2 kPa) or less Maximum Temperature : 71 ℃ Minimum Temperature : -50 ℃ Temperature : (-75 ~ 180) ℃ Maximum Temperature : 49 ℃ Maximum total solar radiation : 1 120 W/m² Maximum Temperature : 71 ℃ Humidity : 98 % R.H. Salt solution concentration : (5 ± 1) % Test chamber temperature in the exposure zone : (35 ± 2) ℃ Depth of immersion : Up to 1 000 mm Frequency : 5 Hz ~ 3 kHz Maximum amplitude(p-p) : 50.8 mm Maximum acceleration : 200 m/s² Shock wave : Sawtooth, Trapezoidal Maximum amplitude(p-p) : 50.8 mm Maximum acceleration : 200 m/s² Maximum duration : 20 ms Fall height : 1.83 m or less	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
MIL-STD-810E:1989	Environmental test methods and engineering guidelines 500.3 Low Pressure(Altitude) Procedure I - Storage Procedure II - Operation 501.3 High Temperature 502.3 Low Temperature 503.3 Temperature Shock 505.3 Solar Radiation(Sunshine) 507.3 Humidity 509.3 Salt Fog 512.3 Leakage(Immersion) Procedure I - Basic leakage 514.4 Vibration Procedure I - General vibration 516.4 Shock Procedure I - Functional Shock Procedure II - Equipment to be packaged Procedure III - Fragility Procedure IV - Transit drop	Altitude : 4 572 m (57.2 kPa) or less Maximum Temperature : 71 ℃ Minimum Temperature : -50 ℃ Temperature : (-75 ~ 180) ℃ Maximum Temperature : 49 ℃ Maximum total solar radiation : 1 120 W/m² Maximum Temperature : 71 ℃ Humidity : 98 % R.H. Salt solution concentration : (5 ± 1) % Test chamber temperature in the exposure zone : (35 ± 2) ℃ Depth of immersion : Up to 1 000 mm Frequency : 5 Hz ~ 3 kHz Maximum amplitude(p-p) : 50.8 mm Maximum acceleration : 200 m/s² Shock wave : Sawtooth, Trapezoidal Maximum amplitude(p-p) : 50.8 mm Maximum acceleration : 200 m/s² Maximum duration : 20 ms Fall height : 1.83 m or less	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
MIL-STD-810F:2000	Environmental engineering considerations and laboratory tests 500.4 Low Pressure(Altitude) Procedure I - Storage/Air transport Procedure II - Operation/Air carriage 501.4 High Temperature 502.4 Low Temperature 503.4 Temperature Shock 505.4 Solar Radiation(Sunshine) 507.4 Humidity 509.4 Salt Fog 512.4 Immersion Procedure I - Immersion 514.5 Vibration Procedure I - General vibration 516.5 Shock Procedure I - Functional Shock Procedure IV - Transit drop	Altitude : 4 572 m (57.2 kPa) or less Maximum Temperature : 71 ℃ Minimum Temperature : -50 ℃ Temperature : (-75 ~ 180) ℃ Maximum Temperature : 49 ℃ Maximum total solar radiation : 1 120 W/m² Maximum Temperature : 71 ℃ Humidity : 98 % R.H. Salt solution concentration : (5 ± 1) % Test chamber temperature in the exposure zone : (35 ± 2) ℃ Depth of immersion : Up to 1 000 mm Frequency : 5 Hz ~ 3 kHz Maximum amplitude(p-p) : 50.8 mm Maximum acceleration : 200 m/s² Shock wave : Sawtooth, Trapezoidal Maximum amplitude(p-p) : 50.8 mm Maximum acceleration : 200 m/s² Maximum duration : 20 ms Fall height : 1.83 m or less	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
MIL-STD-810G:(w/Change 1):2014	DEPARTMENT DEFENCE TEST METHOD STANDARD FOR ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS 500 Low Pressure (Altitude) Procedure I - Storage/Air transport Procedure II - Operation/Air carriage 501 High Temperature 502 Low Temperature 503 Temperature Shock 507 Humidity 514 Vibration 〈Exception〉 Category 4 - Truck/Trailer - Secured Cargo Category 5 - Truck/trailer - loose cargo 516 Shock Procedure I - Functional Shock Procedure II - Transportation Shock Procedure III - Fragility Procedure V - Crash hazard	Altitude : (0 ~ 21) km High possible temperature : 200 ℃ Low possible temperature : -60 ℃ High temperature : (60 ~ 180) ℃ Low temperature : (-75 ~ 0) ℃ Temperature : (10 ~ 90) ℃ Humidity : (20 ~ 98) % R.H. Frequency : 5 Hz ~ 2.6 kHz Maximum Amplitude : 100 mm(p-p) Maximum Acceleration : 857 m/s^2 Wave form : Sawtooth waveform Maximum Amplitude : 116 mm(p-p) Maximum Acceleration : 1 714 m/s^2 Duration : 20 ms	BS	N

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Test method	Standard designation	Test range	Site	Field testing
MIL-STD-810G:(w/Change 1):2014	Environmental engineering considerations and laboratory tests 500.6 Low Pressure(Altitude) Procedure I - Storage/Air transport Procedure II - Operation/Air carriage 501.6 High Temperature 502.6 Low Temperature 503.6 Temperature Shock 505.6 Solar Radiation(Sunshine) 507.6 Humidity 509.6 Salt Fog 512.6 Immersion Procedure I - Immersion 514.7 Vibration Procedure I - General vibration 516.7 Shock Procedure I - Functional Shock Procedure IV - Transit drop 528.1 Mechanical Vibrations of Shipboard Materiel 5.1 Procedure I (Type I) - Environmental Vibration	Altitude : 4 572 m (57.2 kPa) or less Maximum Temperature : 71 ℃ Minimum Temperature : -51 ℃ Temperature : (-75 ~ 180) ℃ Maximum Temperature : 49 ℃ Maximum total solar radiation : 1 120 W/m² Maximum Temperature : 71 ℃ Humidity : 98 % R.H. Salt solution concentration : (5 ± 1) % Test chamber temperature in the exposure zone : (35 ± 2) ℃ Depth of immersion : Up to 1 000 mm Frequency : 5 Hz ~ 3 kHz Maximum acceleration : 200 m/s² Maximum acceleration : 200 m/s² Maximum duration : 20 ms Fall height : 1.83 m or less (4 ~ 33) Hz	BS-2	N

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

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Test method	Standard designation	Test range	Site	Field testing
MIL-STD-810G:2008	Environmental engineering considerations and laboratory tests 500 Low Pressure(Altitude) Procedure I - Storage/Air transport Procedure II - Operation/Air carriage 501 High Temperature 502 Low Temperature 503 Temperature Shock 505 Solar Radiation(Sunshine) 507 Humidity 509 Salt Fog 512 Immersion Procedure I - Immersion 514 Vibration Procedure I - General vibration 516 Shock Procedure I - Functional Shock Procedure II - Materiel to be packaged Procedure III - Fragility Procedure IV - Transit drop Procedure V - Crash hazard Procedure VI - Bench handling 528 Mechanical Vibrations of Shipboard Materiel (Type I - Environmental And Type II- Internally Excited)	Altitude : 0 km to 21 km -Temperature Maximum possible temperature : 200 ℃ Minimum possible temperature : -75 ℃ -Sunlight Temperature : (-40 ~ 150) ℃ Maximum total solar radiation : 1 120 W/m² Temperature & Humidity : (10 ~ 90) ℃, (20 ~ 98) % R.H. -Salt water Salt solution concentration : (5 ± 1) % Test chamber temperature in the exposure zone : (35 ± 2) ℃ -Flooding Depth of immersion : Up to 1 000 mm -Vibration Frequency: 5 Hz~3 kHz Maximum amplitude(p-p) : 50.8 mm Maximum acceleration : 750 m/s² -Shock Shock wave : Sawtooth, Trapezoidal Maximum amplitude(p-p) : 50.8 mm Maximum acceleration : 750 m/s² Maximum duration : 20 ms -Fall Bottom: Steel plate Fall Height: Up to 1.83 m	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
NTE INEN 1173:2013	Metal coatings. Determinations of corrosion resistance. Salt spray testing for neutral	Salt concentration : (50 ± 5) g/L Exposure zone : (35 ± 2) ℃ pH : 6.5 ~ 7.2 (1.5 ± 0.5) ㎖/h	BS-2	N
RS-KTL-2012-0018:2012	HEMP Protection Filter 6.2.1 Low temperature test 6.2.2 High temperature test 6.2.3 Thermal Shock Test 6.3.1 High Temperature Life Test	Low Temperature : (-40 ~ -5) ℃ High Temperature : (30 ~ 85) ℃ Thermal shock : (-40 ~ 85) ℃ High temperature life : (85 ± 2) ℃	BS-2	N
RTCA DO-160G:2010	Environmental Conditions and Test Procedures for Airborne Equipment Section 4 Temperature and Altitude 4.5.1 Ground Survival Low Temperature Test and Short-Time operating Low temperature Test 4.5.2 Operating Low Temperature Test 4.5.3 Ground Survival High Temperature Test and Short-Time operating High temperature Test 4.5.4 Operating High Temperature Test 4.5.5 In-Flight Loss of Cooling Test 4.6.1 Altitude Test Section 5 Temperature Variation Section 6 Humidity Section 7 Operational shocks and Crash Safety 7.2 Operational Shock Section 8 Vibration	Altitude : (0 ~ 21) km High possible temperature : 200 ℃ Low possible temperature : -60 ℃ High temperature : (60 ~ 180) ℃ Low temperature : (-75 ~ 0) ℃ Temperature : (10 ~ 90) ℃ Humidity : (20 ~ 98) % R.H. Frequency : 5 Hz ~ 2.6 kHz Maximum Amplitude : 100 mm(p-p) Maximum Acceleration : 857 m/s^2 Wave form : Sawtooth waveform Maximum Amplitude : 116 mm(p-p) Maximum Acceleration : 1 714 m/s^2 Duration : 20 ms	BS	N

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Test method	Standard designation	Test range	Site	Field testing
RTCA DO-160G:2010	Environmental Conditions and Test Procedures for Airborne Equipment Section 4 Temperature and Altitude 4.5.1 Ground Survival Low Temperature Test and Short-Time operating Low Temperature Test 4.5.2 Operating Low Temperature Test 4.5.3 Ground Survival High Temperature Test and Short-Time operating High Temperature Test 4.5.4 Operating High Temperature Test 4.5.5 In-Flight Loss of Cooling Test 4.6.1 Altitude Test Section 5 Temperature Variation Section 6 Humidity	Altitude : 0 km ~ 21 km Max Temperature : 200 ℃ Min Temperature : -60 ℃ High Temperature : (60 ~ 180) ℃ Low Temperature : (-75 ~ 0) ℃ Temperature: (-40 ~ 150) ℃ Temperature range : (10 ~ 90) ℃ Humidity range : (20 ~ 98) % R.H.	BS-2	N
SMC-S-016:2008	TEST REQUIREMENTS FOR LAUNCH, UPPER-STAGE AND SPACE VEHICLES 6.3.8 Unit Thermal Cycle Test, Electrical and Electronic 6.3.9 Unit Thermal Vacuum Test 7.3.7 Subsystem Thermal Vacuum Test 8.3.8 Vehicle Thermal Vacuum Test 6.3.5 Unit Vibration Test 7.3.4 Subsystem Vibration Test 8.3.6 Vehicle Vibration Test 6.3.4 Unit Shock Test 7.3.6 Subsystem Shock Test 8.3.4 Vehicle Shock Test	(9.3×10^-4 ~ 5.3×10^-2) Pa (-70 ~ 120) ℃ (5 ~ 2 000) Hz (100 ~ 10 000) Hz	BS-6	N

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Test method	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2018-206(20.11.2018.)	Watt-hour meters technical standards 5.2.1 Resistance to vibration 5.2.2 Impact resistance 8.3.2 Heat Resistance 8.3.3 Cold resistance 8.3.4 Temperature and humidity cycle 8.3.5 Solar Radiation	Max Temp : 200 ℃ Min Temp : -60 ℃ Temperature : (10 ~ 55) ℃ Humidity : (20 ~ 98) % R.H. Temperature : (-45 ~ 180) ℃ Maximum solar light : 1 120 W/m² Frequency : (10 ~ 150) Hz Amplitude : 0.075 mm Acceleration: 9.8 m/s² Waveform : Half sine wave Maximum impact acceleration : 300 m/s² Pulse duration : 18 ms	BS-2	N

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04. Heat and Temperature Measurement

04.001 Temperature and Humidity

Test method	Standard designation	Test range	Site	Field testing
ASTM E1292-94	Standard Specification for Gravity Convection and Forced Ventilation Incubators	(5 ~ 75) ℃	BS	Y
ASTM E145-19	Standard Specification for Gravity-Convection and Forced-Ventilation Ovens	(20 ~ 500) ℃	BS	Y
ASTM E715-80	Standard Specification for Gravity-Convection and Forced-Circulation Water Baths	(5 ~ 100) ℃	BS	Y
JTM K 07:2007	Temperature chambers-Test and indication method for performance 3.2.4 Temperature fluctuation 3.2.8 Temperature variation in space	Temperature (-70 ~ 315) ℃	BS	Y
JTM K 09:2009	Temperature/Humidity chambers - Test and indication method for performance 3.2.5 Temperature fluctuation 3.2.6 Humidity fluctuation 3.2.9 Temperature variation in space 3.2.10 Humidity variation in space	Humidity (5 ~ 98) % R.H.	BS	Y
KS B 4003:1990	Test methods for Effective Working Zone of Heating Equipment for meta1s Heat Treatment Use	Max. 1 500 ℃	BS	Y
KS F 2273:2009	Methods of performance test for building construction panels 7.5 Thermal transmittance test	(0.1 ~ 5.0) W/(㎡ · k)	BS-5	N
KS F 2277:2017	Thermal insulation - Determination of steady-state thermal transmission properties - Calibrated and guarded hot box	(0.1 ~ 5.0) W/(㎡ · k)	BS-5	N

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Test method	Standard designation	Test range	Site	Field testing
KS F 2278:2017	Standard test method for thermal resistance for windows and doors	(0.1 ~ 5.0) W/(㎡ · k)	BS-5	N
KS F 2295:2004	Test method of dew condensation for window and doors	Cold chamber : (-30 ~ 20) ℃ Warm chamber : (10 ~ 30) ℃	BS-5	N
KS F 3109:2016	Door sets 9.11 Thermal insulation test 9.14 Dew condensation test	9.11 Thermal insulation test (0.1 ~ 5.0) W/(㎡ · k) 9.14 Dew condensation test Cold chamber : (-30 ~ 20) ℃ Warm chamber : (10 ~ 30) ℃	BS-5	N
KS F 3117:2015	Window sets 9.9 Thermal insulation test	9.9 Thermal insulation test (0.1 ~ 5.0) W/(㎡ · k)	BS-5	N
MOLIT Notice No.2016-835(07.12.2016.)	Design Criteria for Condensate Housing Prevention	Cold chamber : (-30 ~ 20) ℃ Warm chamber : (10 ~ 30) ℃	BS-5	N
MOTIE Notice No.2018-189(22.10.2018.)	Operation management of efficiency management equipment Article 4 (Designation and scope of efficiency management equipment and measurement method, etc.) 25. Window set	(0.1 ~ 5.0) W/(㎡ · k)	BS-5	N
MOTIE Notice No.2018-244(28.12.2018.)	Provision of promoting the supply of high-efficiency energy equipment 11. High airtight insulation door 3. insulation test equipment and test method for door	(0.1 ~ 5.0) W/(㎡ · k)	BS-5	N

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04. Heat and Temperature Measurement

04.002 Fire

Test method	Standard designation	Test range	Site	Field testing
KS C 9806:2014	Digital door lock 6.9 Fire test 6.14 Fire resistance test	0 ~ 350 ℃ Temperature : 0 ~ 1 300 ℃ Heating time : (0.5 ~ 3.0) h	BS-5	N
KS F 2257-1:2019	Methods of fire resistance test for elements of building construction - General requirements	Temperature : 0 ~ 1 300 ℃ Heating time : (0.5 ~ 3.0) h	BS-5	N
KS F 2257-4:2015	Fire resistance test method of building materials - Performance condition of vertical force	Temperature : 0 ~ 1 300 ℃ Heating time : (0.5 ~ 3.0) h	BS-5	N
KS F 2257-8:2015	Fire resistance test method of building materials - A condition of non-proof vertical partition member	Temperature : 0 ~ 1 300 ℃ Heating time : (0.5 ~ 3.0) h	BS-5	N
KS F 2268-1:2014	Fire resistance test for door assemblies	Temperature : 0 ~ 1 300 ℃ Heating time : (0.5 ~ 3.0) h	BS-5	N
KS F 2292:2013	The method of air tightness for windows and doors	Differential pressure : (0 ~ 200) Pa	BS-5	N
KS F 2822:2014	Smoke-proof test method for fire demper	Differential pressure : (0 ~ 200) Pa	BS-5	N
KS F 2845:2013	Fire resistance test for glazed elements	Temperature : 0 ~ 1 300 ℃ Heating time : (0.5 ~ 3.0) h	BS-5	N
KS F 2846:2013	Methods for measuring smoke penetration through door assemblies	Differential pressure : (0 ~ 200) Pa	BS-5	N
KS F 4510:2015	Weight shutter 11.2 Fire resistance test of shutters 11.3 Fire sealing test of the shutter 11.6 Opening and Closing Test of Shutter	Temperature : 0 ~ 1 300 ℃ Heating time : (0.5 ~ 3.0) h Differential pressure : (0 ~ 200) Pa Load : (0 ~ 2 000) kg	BS-5	N

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Test method	Standard designation	Test range	Site	Field testing
KS F ISO 10295-1:2013	Fire resistance test method of building materials - Charging system - Part 1: Installation through-hole charging system	Temperature : 0 ~ 1 300 ℃ Heating time : (0.5 ~ 3.0) h	BS-5	N
MOLIT Notice No.2015-212(30.03.2015.)	Standard of a automatic fire shutter door and a fire door Code Section 5 of ① shutter(include integral shutter) Code Section 5 of ② a fire door Code Section 5 of ③ a elevator door	-	BS-5	N
MOLIT Notice No.2019-592(28.10.2019.)	Standard of automatic fireproof shutters and fire doors	-	BS-5	N
MOLIT Notice No.2019-593(28.10.2019.)	Recognition and management standard of fire-fighting structure · Guidance on detailed operation of fire-fighting structure recognition and management [Appendix 1] Quality Test Method for Refractory Structures 2. Fire resistance test method of fireproof structure 2.3.5 Weight of building steel wall and building wall 2.4 Fire resistance test of refractory structure (vertical partition member) · Detailed operation guide of refractory filling structure [Appendix] Test method of refractory filling structure (2016.08.24.) Ⅰ. Facility penetrating part filling system Fire resistance test method (vertical partition member) Ⅱ. Linear joint filling system Fire resistance test method (vertical partition member)	Temperature : 0 ~ 1 300 ℃ Heating time : 0.5 ~ 3.0 h Load : 0 ~ 60 kg	BS-5	N

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Test method	Standard designation	Test range	Site	Field testing
MOLIT Notice No.2020-44(30.01.2020.)	Standard of automatic fireproof shutters, fire-doors and fire-dampers <Exception> Section 5 of ⑥ top-down refuge	-	BS-5	N

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06. Sound and Vibration Testing

06.001 Sound Property

Test method	Standard designation	Test range	Site	Field testing
ASTM E 1050:2012	Standard Test Method for Impedance and Absorption of Acoustical Materials Using a Tube, Two Microphones and a Digital Frequency Analysis System	Absorption 0 ~ 1 63 Hz ~ 6.4 kHz	BS	N
ISO 10140-2:2010	Acoustics — Laboratory measurement of sound insulation of building elements — Part 2: Measurement of airborne sound insulation	100 Hz ~ 5 kHz	BS	N
ISO 10534-2:1998	Acoustics — Determination of sound absorption coefficient and impedance in impedance tubes — Part 2 : Transfer-function method	Absorption 0 ~ 1 63 Hz ~ 6.4 kHz	BS	N
ISO 10847:1997	Acoustics — In-situ determination of insertion loss of outdoor noise barriers of all types	100 Hz ~ 10 kHz	BS	Y
ISO 11202:2010	Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections	100 Hz ~ 10 kHz	BS	Y
ISO 11203:1995	Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions from the sound power level	100 Hz ~ 10 kHz	BS	Y

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Test method	Standard designation	Test range	Site	Field testing
ISO 1996-1:2016	Acoustics — Description, measurement and assessment of environmental noise — Part 1 : Basic quantities and assessment procedures	100 Hz ~ 10 kHz	BS	Y
ISO 3382-1:2009	Acoustics — Measurement of room acoustic parameters — Part 1 : Performance spaces	RT, D50, STI etc	BS	Y
ISO 3382-2:2008	Acoustics — Measurement of room acoustic parameters — Part 2 : Reverberation time in ordinary rooms	RT	BS	Y
ISO 354:2003	Acoustics — Measurement of sound absorption in a reverberation room	Absorption : 0 ~ 1 100 Hz ~ 5 kHz	BS	N
ISO 3741:2010	Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision methods for reverberation test rooms	100 Hz ~ 10 kHz	BS	N
ISO 3744:2010	Acoustics — Determenation 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	125 Hz ~ 8 kHz	BS	Y
ISO 3745:2012	Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision methods for anechoic rooms and hemi-anechoic rooms	63 Hz ~ 10 kHz	BS	N

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Test method	Standard designation	Test range	Site	Field testing
JIS Z 8732:2000	Acoustics — Determination of sound power levels of noise sources using sound pressure — Precision methods for anechoic and hemi-anechoic rooms	125 Hz ~ 10 kHz	BS	N
JIS Z 8734:2000	Acoustics — Determination of sound power levels of noise sources using sound pressure — Precision methods for reverberation rooms	100 Hz ~ 10 kHz	BS	N
KS F 10140-2:2010	Acoustics — Laboratory measurement of sound insulation of building elements — Part 2: Measurement of airborne sound insulation	100 Hz ~ 5 kHz	BS	N
KS F 2805:2014	Measurement of sound absorption in a reverberation room	Absorption : 0 ~ 1 100 Hz ~ 5 kHz	BS	N
KS F 2809:2011	Field measurements of airborne sound insulation of buildings	100 Hz ~ 3 150 Hz	BS	Y
KS F 2810-1:2015	Field measurements of impact sound insulation of floors — Part 1: Method using standard light impact source	100 Hz ~ 3 150 Hz	BS	Y
KS F 2810-2:2012	Field measurements of floor impact sound insulation of buildings — Part 2 : Method using standard heavy impact sources	50 Hz ~ 630 Hz	BS	Y
KS F 2814-2:2002	Acoustics—determination of sound absorption coefficient and impedance in impedance tubes — Part 2 : Transfer-function method	Absorption 0 ~ 1 63 Hz ~ 6.4 kHz	BS	N
KS F 2862:2017	Rating of airborne sound insulation in buildings and of building elements	100 Hz ~ 3 150 Hz	BS	Y

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Test method	Standard designation	Test range	Site	Field testing
KS F 2863-1:2017	Rating of floor impact sound insulation for impact source in buildings and of building elements — Part 1: Floor impact sound insulation against standard light impact source	100 Hz ~ 3 150 Hz	BS	Y
KS F 2863-2:2017	Rating of floor impact sound insulation for impact source in buildings and of building elements — Part 2: Floor impact sound insulation against standard heavy impact source	63 Hz ~ 2 000 Hz	BS	Y
KS F 2864:2012	Measurement of the reverberation time of rooms with reference to the other acoustical parameters	RT, D50, STI etc	BS	Y
KS F ISO 16283-1:2014	Acoustics — Field measurement of sound insulation in buildings and of building elements — Part 1: Airborne sound insulation	100 Hz ~ 3 150 Hz	BS	Y
KS F ISO 16283-2:2015	Acoustics — Field measurement of sound insulation in buildings and of building elements — Part 2: Impact sound insulation	100 Hz ~ 3 150 Hz	BS	Y
KS I ISO 10847:2014	Acoustics — In-situ determination of insertion loss of outdoor noise barriers of all types	100 Hz ~ 10 kHz	BS	Y
KS I ISO 11202:2014	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	100 Hz ~ 10 kHz	BS	Y

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Test method	Standard designation	Test range	Site	Field testing
KS I ISO 11203:2004	Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions from the sound power level	100 Hz ~ 10 kHz	BS	Y
KS I ISO 1996-1:2015	Acoustics — Description, measurement and assessment of environment noise — Part 1: Basic quantities and assessment procedures	100 Hz ~ 10 kHz	BS	Y
KS I ISO 3741:2010	Acoustics — Determination of sound power levels of noise sources using sound pressure — Precision methods for reverberation rooms	100 Hz ~ 10 kHz	BS	N
KS I ISO 3744:2015	Acousitcs — 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	125 Hz ~ 8 kHz	BS	Y
KS I ISO 3745:2012	Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision methods for anechoic rooms and hemi-anechoic rooms	63 Hz ~ 10 kHz	BS	N
KS I ISO 7779:2010	Acoustics — Measurement of airborne noise emitted by information technology and telecommunications equipment	125 Hz ~ 10 kHz	BS	N
KS I ISO 9614-2:2014	Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 2: Measurement by scanning	50 Hz ~ 6 300 Hz	BS	Y

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Test method	Standard designation	Test range	Site	Field testing
MIL-STD-740-1	AIRBORNE SOUND MEASUREMENTS AND ACCEPTANCE CRITERIA OF SHIPBOARD EQUIPMENT	31.5 Hz ~ 8 000 Hz	BS	Y

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06. Sound and Vibration Testing

06.002 Vibration Property

Test method	Standard designation	Test range	Site	Field testing
IEC 60068-3-3:1991	Environmental Testing Part 3 : Guidance Seismic Test Methods for Equipments. First Edition - 13.2 Multi frequency wave testing - 13.3 Single frequency testing	Frequency : (1 ~ 50) Hz	BS-2	N
IEC 60255-21-3:1993	Electrical relays - Part 21 : Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 3 : Seismic tests.	Frequency : (1 ~ 35) Hz Sweep Rate : 1 octave/min	BS-2	N
IEC 61587-2:2011	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 - Part 2 : Seismic tests for cabinets and racks	Frequency : (1 ~ 50) Hz Max. Deflection : ≥ 40 mm Damping : 2 %	BS-2	N
IEEE C37.98:2013	IEEE Standard Seismic Testing of Relays	Frequency : (1 ~ 100) Hz	BS-2	N
IEEE Std 323:2003	IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations - 5. Qualification method - 6. Qualification program	Frequency : (1 ~ 50) Hz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
IEEE Std 344:2013	IEEE Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations - 8. Testing - 8.1 Introduction - 8.2 Proof and generic testing - 8.4 Device testing - 8.5 Assembly testing - 8.6 Test method - 8.6.1 Introduction - 8.6.2 Single-frequency test - 8.6.3 Multi-frequency tests - 8.6.3.1 Derivation of test input motion - 8.6.3.2 Time history test - 8.6.3.3 Random-motion test - 8.6.6 Multi axis tests	Frequency : (1 ~ 50) Hz TRS analysis : 1/6 octave Bandwidth Analysis	BS-2	N
IEEE Std 382:2006	IEEE Standard for Qualification of Actuators for Power-Operated Valve Assemblies with Safety-Related Functions for Nuclear Power Plants - 5. Identification of the generic actuator group - 6. Qualification testing of selected actuators in generic actuator group	Frequency : (1 ~ 50) Hz Sine Beat : (12 ~ 15) oscillations per beat	BS-2	N
IEEE Std 693:2005	IEEE Recommended Practice for Seismic Design of Substations - 9. Seismic performance criteria for electrical substation equipment	Frequency : (1 ~ 50) Hz	BS-2	N
KS C IEC 60068-3-3:2001	Environmental Testing Part 3 : Guidance Seismic Test Methods for Equipments. First Edition - 13.2 Multi frequency wave testing - 13.3 Single frequency testing	Frequency : (1 ~ 50) Hz	BS-2	N

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Test method	Standard designation	Test range	Site	Field testing
KS C IEC 60255-21-3:2017	Electrical relays - Part 21 : Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 3 : Seismic tests.	Frequency : (1 ~ 35) Hz Sweep Rate : 1 octave/min	BS-2	N
MIL-STD-167-1A:2005	Mechanical Vibrations of Shipboard Equipment - 5.1 Type I - environmental vibration	Frequency : (4 ~ 33) Hz	BS-2	N
RRA Notification No.2020-92(17.11.2020.)	Conformity Assessment Procedure for Seismic of Telecommunication Equipment 〈Exception〉 Article 14 Analysis application conditions Article 16 Analysis result report Article 18 Analysis result judgment condition Appendix 2 Summary of seismic analysis results	Frequency : (1 ~ 50) Hz TRS analysis : 1/6 octave Bandwidth Analysis	BS-2	N

End.