

CERTIFICATE OF ACCREDITATION

CTK Co., Ltd.

Accreditation No. : KT119

Corporation Registration No. : 134511-0029478

Address of Laboratory : (Branch site)(Ho-Dong) 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
(Branch site-1)(Unhak-Dong) 142, Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
(Branch site-2)(Unhak-Dong) 5, 221beon-gil, Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
(Satellite facilities-1)(Ho-Dong) 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
(Satellite facilities-2)(Unhak-Dong) 142, Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
(Satellite facilities-3)(Unhak-Dong) 5, 221beon-gil, Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea

Date of Initial Accreditation : November 18, 2000

Validity of Accreditation : March 26, 2022 ~ March 25, 2026

Scope of Accreditation : Attached Annex

Date of issue : August 24, 2023

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



CHIN CHONGWOOK

Head

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03. Electrical Testing

03.004 Electrical materials and components

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS/NZS 3112:2017+Amd1 :2021	Electrical materials and components	Approval and test specification - Plugs and socket-outlets	AC voltage: 440 V or less AC current: 32 A or less	SF-3	N
BS 1363-1:2016+A1:2018	Electrical materials and components	13 A plugs, socket-outlets, adaptors and connection units Part 1. Specification for rewirable and non-rewirable 13A fused plugs	AC voltage: 440 V or less AC current: 32 A or less	SF-3	N
BS 1363-2:2016+A1:2018	Electrical materials and components	13 A plugs, socket-outlets, adaptors and connection units Part 2. Specification for 13 A switched and unswitched socket outlets	AC voltage: 250 V or less AC current: 13 A or less	SF-3	N
EN 50075:2002	Electrical materials and components	Flat non-rewirable two-pole plugs, 2,5 A, 250 V, with cord, for the connection of class II-equipment for household and similar purposes [Exception] 12 Flexible cords and their connection	AC voltage: 440 V or less AC current: 32 A or less	SF-3	N
EN 62133:2013	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications [Exception] 7.2.2 Vibration test 7.3.4 Mechanical shock(crash hazard) 8.3.9 Design evaluation - Forced internal short circuit(cells)	DC voltage: 1 000 V or less	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 62133:2013	Electrical materials and components	Secondary cells and batteries containing alkaline or other non- acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications [Exception] 7.3.6 Crushing of cells 8.3.5 Crush 8.3.9 Design evaluation - Forced internal short circuit (cells)	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C Pressure : (0 ~ 30) Kn	BS	N
IEC 60112:2020	Electrical materials and components	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	DC: 600 V or less	BS	N
IEC 60695-10- 2:2014	Electrical materials and components	Fire hazard testing-Part 10-2:Abnormal heat- Ball pressure test method	Temperature : 300 °C or less Pressure : 20N or less	BS	N
IEC 60695-11-5 ed1.0 2016	Electrical materials and components	Fire hazard testing-Part 11-5 : Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	Temperature: 1 200 °C or less	BS	N
IEC 60695-2- 10:2013	Electrical materials and components	Fire hazard testing-Part 2-10 : Glowing/hot-wire based test methods.- Glow-wire apparatus and common test procedure	Temperature: 960 °C or less	BS	N
IEC 60884-1 ed3.2:2013	Electrical materials and components	Plugs and socket-outlets for household and similar purposes - Part 1: General requirements [Exception] 10 Protection against electric shock 22 Force necessary to withdraw the plug 23 Flexible cables and their connection 24 Mechanical strength	AC voltage: 600 V or less AC current: 30 A or less	SF-3	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60884-2-5:2017	Electrical materials and components	Plugs and socket-outlets for household and similar purposes - Part 2: Particular requirements for adaptors	AC voltage: 600 V or less AC current: 30 A or less	SF-3	N
IEC 61960:2011	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C ESD : 8 Kv or less	BS	N
IEC 61960:2011	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications	DC voltage: 1 000 V or less	BS-1	N
IEC 62133-2:2017	Electrical materials and components	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 [Exception] 7.3.5 Crush(cells) 7.3.9 Design evaluation - Forced internal short-circuit(cells)	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C Pressure : (0 ~ 30) kN	BS	N
IEC 62133:2012	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications [Exception] 7.2.2 Vibration test 7.3.4 Mechanical shock (crash hazard)	DC voltage :1 000 V or less	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62133:2012	Electrical materials and components	Secondary cells and batteries containing alkaline or other non- acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications [Exception] 7.3.4 Mechanical shock (crash hazard) 7.3.6 Crushing of cells 8.3.5 Crush	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C Pressure : (0 ~ 30) Kn	BS	N
IRAM 2063:2009	Electrical materials and components	Ungrounded bipolar plugs for household and similar uses, 10 A, 250 V alternating current	DC voltage: 250 V DC current: 10A	SF-3	N
IS 1293:2019	Electrical materials and components	Plugs and socket-outlets of rated voltage up to and including 250 volts and rated current up to and including 16 amperes-specification	AC voltage: 440 V or less AC current: 32 A or less	SF-3	N
KC 60112:2015	Electrical materials and components	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	Temperature: 600 V or less	BS	N
KC 60695-2- 2:2015	Electrical materials and components	Fire hazard testing. Test methods. Glowing/hot- wire based test methods. Glow-wire flammability test method for end- products	Temperature: 1 200 °C or less length of Flame: 13 mm or less	BS	N
KC 62133-2:2020	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C Pressure : (0 ~ 30) kN	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60112:2009	Electrical materials and components	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	Temperature: 600 V or less	BS	N
KS C IEC 60695- 10-2:2014	Electrical materials and components	Fire hazard testing — Part 10-2: Abnormal heat — Ball pressure test method	Temperature : 300 °C or less Pressure : 20N or less	BS	N
KS C IEC 60695-2- 10:2013	Electrical materials and components	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	Temperature: 960 °C or less	BS	N
KS C IEC 61960:2008	Electrical materials and components	Portable lithium secondary battery	1 000 V or less	BS-1	N
KS C IEC 61960:2008	Electrical materials and components	Portable lithium secondary battery	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C ESD : 8 Kv or less	BS	N
NM 60884-1:2009	Electrical materials and components	Chips and outlets for domestic uses and Similar - Part 1 - General Requirements (IEC 60884-1: 2006 MOD), Plug and socket for domestic and analog use Part 1 - Gerais requirements (IEC 60884-1: 2006 MOD)	AC voltage: 440 V or less AC current:: 32 A or less	SF-3	N
SASO 2203:2018	Electrical materials and components	PLUGS AND SOCKET- OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES- SAFETY REQUIREMENTS AND TEST METHODS 250 V/13 A	AC voltage: 250 V or less AC current: 13 A or less	SF-3	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ST/SG/AC.10/11/R ev.7/:2019	Electrical materials and components	Recommendations on the TRANSPORT OF DANGEROUS GOODS - Manual of Tests and Criteria (38.3 Lithium metal and lithium ion batteries) [제외항목] 38.3.4.2 Thermal test 38.3.4.3 Vibration test 38.3.4.4 Shock test	DC voltage : (0 ~ 100) V DC current : (0 ~ 100) A Pressure : (0 ~ 20) kPa Temperature : (-40 ~ 150) °C Frequency : (0 ~ 20) Hz Acceleration : (0.98 ~ 1 470) m/s ²	BS-1	N
ST/SG/AC.10/11/R ev.7/:2019	Electrical materials and components	Recommendations on the TRANSPORT OF DANGEROUS GOODS - Manual of Tests and Criteria (38.3 Lithium metal and lithium ion batteries)	DC voltage : (0 ~ 100) V DC current: (0 ~ 100) A Pressure : (0 ~ 20) kPa Temperature : (-40 ~ 150) °C Frequency : (0 ~ 20) Hz Acceleration : (0.98 ~ 1470) m/s ² Impact height : (0.1 ~ 1.5) m	BS	N

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03.007 Electrical machinery for households

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS/NZS 62368.1:2018	Electrical machinery for households	Audio/video, information and communication tech nology equipment- Part 1: Safety requiremen ts [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS	N
AS/NZS 62368.1:2018	Electrical machinery for households	Audio/video, information and communication tech nology equipment- Part 1: Safety requiremen ts [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60065:2014	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements [Exception] 6.1 Ionizing radiation 6.2 Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18 Mechanical strength of picture tubes and protection against the effects of implosion. Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS-1	N
EN 60065:2014	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements [Exception] 6.1. Ionizing radiation 6.2. Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18. Mechanical strength of picture tubes and protection against the effects of implosion. Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60335-1:2012+AMD:2017+AMD2:2019	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus 30.2 Parts of non-metallic shall be resistant to ignition and spread of fire - Glow wire test Annex N Proof tracking test Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
EN 60335-1:2012+AMD:2017+AMD2:2019	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60950-1:2006 +A11:2009+A1:2010+A12:2011+A2:2013	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex A Tests for resistance to heat and fire Annex B B.4 Running overload test B.6 Running overload test for d.c. motors in secondary circuit Annex T (information) Guidance on protection against ingress of water	AC 500 V, 30 A or less	BS-1	N
EN 60950-1:2006 +A11:2009+A1:2010+A12:2011+A2:2013	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex B B.4. Running overload test B.6 Running overload test for d.c. motors in secondary circuit	AC 500 V, 30 A or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60950-22:2017	Electrical machinery for households	Information technology equipment - Safety - Part 22: Equipment to be installed outdoors [Exception] 8.2 Resistance to ultra-violet radiation 8.5.2 Oil resistance Annex A Water - saturated sulphur dioxide atmosphere	Input Voltage: AC 600 V or less Input Current: 20 A or less Leakage Current: 10 mA or less Temperature: 200 or less Earth Continuity: AC 12 V, 60 A or less Electric strength : AC/DC 10 kV, 100 mA or less Insulation Resistance: 2 GΩ or more Humidity: 93 % R.H. or less	BS-1	N
EN 60950-22:2017	Electrical machinery for households	Information technology equipment - Safety - Part 22: Equipment to be installed outdoors [Exception] 8.2 Resistance to ultra-violet radiation 8.5.2 Oil resistance Annex A Water - saturated sulphur dioxide atmosphere	Input Voltage: AC 600 V or less Input Current: 20 A or less Leakage Current: 10 mA or less Temperature: 200 or less Earth Continuity: AC 12 V, 60 A or less Electric strength : AC/DC 10 kV, 100 mA or less Insulation Resistance: 2 GΩ or more Humidity: 93 % R.H. or less	BS	N
EN 60950-23:2006	Electrical machinery for households	Information technology equipment - Safety - Part 23: Large data storage equipment	Frequency range: 100 Hz ~ 20 kHz Output voltage: 20 mV ~ 200 mV Signal: < 100 dB	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 62368-1:2014+A11:2017	Electrical machinery for households	Audio/video, Information and communication technology equipment - Part 1: Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 62368-1:2014+A11:2017	Electrical machinery for households	Audio/video, information and communication technology equipment- Part1: Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.7 Main supply cords Annex G.9 Integrated circuit (IC) current limiters Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex M.8 Protection against internal ignition from external spark source of batteries with aqueous electrolyte Annex S Tests for resistance to heat and fire Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS-1	N
EN 62684:2010	Electrical machinery for households	Interoperability specifications of common external power supply(EPS) for use with data-enabled mobile telephones <Exception> 6.2 D) Common-mode noise probe	Input voltage: DC 20 V or less	BS-1	N
EN 62684:2010	Electrical machinery for households	Interoperability specifications of common external power supply(EPS) for use with data-enabled mobile telephones [Exception] 6.2 D) Common-mode noise probe	Input voltage: DC 20 V or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 62368-1:2020 +A11:2020	Electrical machinery for households	Audio/video, Information and communication technology equipment - Part 1: Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion Annex Y.3 Resistance to corrosion Annex Y.3.3 Water- saturated Sulphur dioxide atmosphere Annex Y.4.3 Tensile strength and elongation tests Annex Y.4.4 Compression tests Annex Y.4.5 Oil resistance	AC/DC 600 V or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 62368-1:2020 +A11:2020	Electrical machinery for households	Audio/video, information and communication technology equipment- Part1:Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.7 Main supply cords Annex G.9 Integrated circuit (IC) current limiters Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex M.8 Protection against internal ignition from external spark source of batteries with aqueous electrolyte Annex S Tests for resistance to heat and fire Annex U Mechanical strength of CRTs and protection against the effects of implosion Annex Y.3 Resistance to corrosion Annex Y.3.3 Water-saturated Sulphur dioxide atmosphere Annex Y.4.3 Tensile strength and elongation tests Annex Y.4.4 Compression tests Annex Y.4.5 Oil resistance	AC/DC 600 V or less	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60065:2014	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements [Exception] 6.1 Ionizing radiation 6.2 Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18 Mechanical strength of picture tubes and protection against the effects of implosion. Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS-1	N
IEC 60065:2014	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements [Exception] 6.1. Ionizing radiation 6.2. Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18. Mechanical strength of picture tubes and protection against the effects of implosion. Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60335-1:2010 +AMD:2013+AM D2:2016	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus 30.2 Parts of non- metallic material shall be resistant to ignition and spread of fire - Glow wire test Annex N Proof tracking test Annex E Needle flame test Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
IEC 60335- 1:2010+AMD:201 3+AMD2:2016	Electrical machinery for households	Household and similar electrical appliances- Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60335-2-24:2010 +A1:2012+A2:2017	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers [Exception] 21. Mechanical strength - Vibration 22. Construction - Test for Flammable refrigerants	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N
IEC 60335-2-24:2010 +A1:2012+A2:2017	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers [Exception] 21. Mechanical strength - Vibration 22. Construction - Test for Flammable refrigerants	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
IEC 60335-2-29:2016 +A1:2019	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
IEC 60335-2-29:2016 +A1:2019	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60335-2-2:2009 +A1:2012+A2:2016	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21 Mechanical strength	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
IEC 60335-2-2:2009 +A1:2012+A2:2016	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21 Mechanical strength	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N
IEC 60335-2-84:2002 +A1:2008+A2:2013	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
IEC 60335-2-84:2002 +A1:2008+A2:2013	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60950-1:2005 (Second Edition) +Am1:2009+Am2: 2013	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex A Tests for resistance to heat and fire Annex B B.4 Running overload test B.6 Running overload test for d.c. motors in secondary circuit Annex T (information) Guidance on protection against ingress of water	AC 500 V, 30 A or less	BS-1	N
IEC 60950-1:2005 (Second Edition) +Am1:2009+Am2: 2013	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex B B.4. Running overload test B.6 Running overload test for d.c. motors in secondary circuit	AC 500 V, 30 A or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60950-22:2016	Electrical machinery for households	Information technology equipment - Safety - Part 22: Equipment to be installed outdoors [Exception] 8.2 Resistance to ultra-violet radiation 8.5.2 Oil resistance Annex A Water - saturated sulphur dioxide atmosphere	Input Voltage: AC 600 V or less Input Current: 20 A or less Leakage Current: 10 mA or less Temperature: 200 or less Earth Continuity: AC 12 V, 60 A or less Electric strength : AC/DC 10 kV, 100 mA or less Insulation Resistance: 2 GΩ or more Humidity: 93 % R.H. or less	BS-1	N
IEC 60950-22:2016	Electrical machinery for households	Information technology equipment - Safety - Part 22: Equipment to be installed outdoors [Exception] 8.2 Resistance to ultra-violet radiation 8.5.2 Oil resistance Annex A Water - saturated sulphur dioxide atmosphere	Input Voltage: AC 600 V or less Input Current: 20 A or less Leakage Current: 10 mA or less Temperature: 200 or less Earth Continuity: AC 12 V, 60 A or less Electric strength : AC/DC 10 kV, 100 mA or less Insulation Resistance: 2 GΩ or more Humidity: 93 % R.H. or less	BS	N
IEC 60950-23:2005	Electrical machinery for households	Information technology equipment - Safety - Part 23: Large data storage equipment	Input Voltage: AC 600 V or less Input Current: 20 A or less Leakage Current: 10 mA or less Temperature: 200 or less Earth Continuity: AC 12 V, 60 A or less Electric strength : AC/DC 10 kV, 100 mA or less Insulation Resistance: 2 GΩ or more Humidity: 93 % R.H. or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62368-1:2014	Electrical machinery for households	Audio/video, information and communication technology equipment- Part1:Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.7 Main supply cords Annex G.9 Integrated circuit (IC) current limiters Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex M.8 Protection against internal ignition from external spark source of batteries with aqueous electrolyte Annex S Tests for resistance to heat and fire Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62368-1:2014	Electrical machinery for households	Audio/video, information and communication tech nology equipment- Part 1: Safety requirement 5 [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62368-1:2018	Electrical machinery for households	Audio/video, Information and communication technology equipment - Part 1: General requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion Annex Y.3 Resistance to corrosion Annex Y.3.3 Water- saturated Sulphur dioxide atmosphere Annex Y.4.3 Tensile strength and elongation tests Annex Y.4.4 Compression tests Annex Y.4.5 Oil resistance	AC/DC 600 V or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62368-1:2018	Electrical machinery for households	Audio/video, information and communication technology equipment- Part1:Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.7 Main supply cords Annex G.9 Integrated circuit (IC) current limiters Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex M.8 Protection against internal ignition from external spark source of batteries with aqueous electrolyte Annex S Tests for resistance to heat and fire Annex U Mechanical strength of CRTs and protection against the effects of implosion Annex Y.3 Resistance to corrosion Annex Y.3.3 Water- saturated Sulphur dioxide atmosphere Annex Y.4.3 Tensile strength and elongation tests Annex Y.4.4 Compression tests Annex Y.4.5 Oil resistance	AC/DC 600 V or less	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62684 edition 1.0:2011	Electrical machinery for households	Interoperability specifications of common external power supply(EPS) for use with data-enabled mobile telephones <Exception> 6.2 D) Common-mode noise probe	Input voltage: DC 20 V or less	BS-1	N
IEC 62684 edition 1.0:2011	Electrical machinery for households	Interoperability specifications of common external power supply(EPS) for use with data-enabled mobile telephones [Exception] 6.2 D) Common-mode noise probe	Input voltage: DC 20 V or less	BS	N
K 60950-1:2011	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex B B.4. Running overload test B.6 Running overload test for d.c. motors in secondary circuit	AC 500 V, 30 A or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
K 60950-1:2011	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex A Tests for resistance to heat and fire Annex B B.4 Running overload test B.6 Running overload test for d.c. motors in secondary circuit Annex T (information) Guidance on protection against ingress of water	AC 500 V, 30 A or less	BS-1	N
KC 60065:2015	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements [Exception] 6.1. Ionizing radiation 6.2. Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18. Mechanical strength of picture tubes and protection against the effects of implosion. Annex A. Additional requirements for apparatus with protection against splashing water Annex G Flammability test methods Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 60065:2015	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements <Exception> 6.1. Ionizing radiation 6.2. Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18. Mechanical strength of picture tubes and protection against the effects of implosion. Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS	N
KC 60335-1:2016	Electrical machinery for households	Household and similar electrical appliances- Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus Annex E Needle Flame test Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
KC 60335-1:2016	Electrical machinery for households	Household and similar electrical appliances- Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 60335-2-24:2015	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers [Exception] 21. Mechanical strength - Vibration 22. Construction - Test for Flammable refrigerants	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N
KC 60335-2-24:2015	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers [Exception] 21. Mechanical strength - Vibration 22. Construction - Test for Flammable refrigerants	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
KC 60335-2-29:2020	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
KC 60335-2-29:2020	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 60335-2-2:2015	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21 Mechanical strength	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
KC 60335-2-2:2015	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21 Mechanical strength	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N
KC 60335-2-84:2016	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
KC 60335-2-84:2016	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N
KC 62368-1:2021	Electrical machinery for households	Audio/video, Information and communication technology equipment - Part 1: General requirements	AC/DC 600 V or less	BS	N
KC 62368-1:2021	Electrical machinery for households	Audio/video, Information and communication technology equipment - Part 1: General requirements	AC/DC 600 V or less	BS-1	N

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03. Electrical Testing

03.008 Wired/wireless communication devices

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
3GPP TS 25.104 V15.4.0	wireless communicatio n devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Base Station (BS) radio transmission and reception(FDD)	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
3GPP TS 25.141 V15.3.0	wireless communicatio n devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Base Station (BS) conformance testing (FDD)	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
3GPP TS 36.104 V15.4.0	wireless communicatio n devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
3GPP TS 36.141 V15.4.0	wireless communicatio n devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
3GPP TS 37.104 V15.4.0	wireless communicatio n devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception [Exception] New Radio (NR) Requirements(Clauses 6.3.6, 6.5.1.6, 6.5.2.6, 6.5.3.5, 6.6.4.6, 7.2.6, 7.3.6, 7.8.2, 8.5)	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
3GPP TS 37.141 V15.4.0	wireless communicatio n devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) conformance testing	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
3GPP TS 51.021 V15.1.0	wireless communicatio n devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Base Station System (BSS) equipment specification; Radio aspects	Frequency Range: 100 kHz ~ 12.75 GHz	BS-2	N
AS/NZS 4268:2017	wireless communicatio n devices	Radio equipment and systems - Short range devices - Limits and methods of measurement	Frequency Range: 30 MHz ~ 26 GHz	BS-2	N
EN 300 220-1 V3.1.1	wireless communicatio n devices	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	Frequency Range: 9 kHz ~ 6 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 300 220-2 V3.2.1	wireless communicatio n devices	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment	Frequency Range: 9 kHz ~ 6 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
EN 300 328 V2.1.1	wireless communicatio n devices	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 30 MHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
EN 300 328 V2.2.2	wireless communicatio n devices	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum	Frequency Range: 30 MHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
EN 300 330 V2.1.1	wireless communicatio n devices	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 9 kHz ~ 1 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 300 440 V2.2.1	wireless communicatio n devices	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 9 kHz ~ 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
EN 301 357 V2.1.1	wireless communicatio n devices	Cordless audio devices in the range 25 MHz to 2 000 MHz; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 9 kHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
EN 301 502 V12.5.2	wireless communicatio n devices	Global System for Mobile communications (GSM); Base Station (BS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 100 kHz ~ 12.75 GHz	BS-2	N
EN 301 511 V9.0.2	wireless communicatio n devices	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)	Frequency Range: 9 kHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
EN 301 893 V1.8.1	wireless communicatio n devices	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	Frequency Range: 30 MHz ~ 26 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
EN 301 893 V2.1.1	wireless communicatio n devices	5 GHz RLAN; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 30 MHz ~ 26 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 301 908-1 V13.1.1	wireless communicatio n devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements [Exception] User Equipment(Clauses 4.2.2, 4.2.4, 5.3.1, 5.3.3)	Frequency Range: 30 MHz ~ 12.75 GHz	BS-2	N
EN 301 908-14 V13.0.1	wireless communicatio n devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
EN 301 908-14 V13.1.1	wireless communicatio n devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
EN 301 908-15 V11.1.2	wireless communicatio n devices	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters	Frequency Range: 9 kHz ~ 12.75 GHz	BS-2	N
EN 301 908-15 V15.1.1	wireless communicatio n devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
EN 301 908-18 V13.0.1	wireless communicatio n devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 18: E- UTRA, UTRA and GSM/EDGE Multi- Standard Radio (MSR) Base Station (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 301 908-18 V13.1.1	wireless communicatio n devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 18: E- UTRA, UTRA and GSM/EDGE Multi- Standard Radio (MSR) Base Station (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
EN 301 908-3 V13.0.1	wireless communicatio n devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
EN 301 908-3 V13.1.1	wireless communicatio n devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
EN 302 065-1 V2.1.1	wireless communicatio n devices	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Requirements for Generic UWB applications	Frequency Range: 30 MHz ~ 40 GHz	BS-2	N
EN 302 208 V3.1.1	wireless communicatio n devices	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W; Harmonized Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	Frequency Range: 9 kHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W Operation band: 865 MHz ~ 868 MHz	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 302 208 V3.3.1	wireless communication devices	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W; Harmonised Standard for access to radio spectrum	Frequency Range: 9 kHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W Operation band: 865 MHz ~ 868 MHz	BS-2	N
EN 303 417 V1.1.1	wireless communication devices	Wireless power transmission systems, using technologies other than radio frequency beam in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 100 kHz ~ 1 GHz	BS-2	N
EN 303 883 V1.1.1	wireless communication devices	Short Range Devices (SRD) using Ultra Wide Band (UWB); Measurement Techniques	Frequency Range: 30 MHz ~ 40 GHz	BS-2	N
EN 50364:2010	wireless communication devices	Limitation of human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 300 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications	Frequency Range: 20 Hz ~ 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
EN 50371:2002	wireless communication devices	Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz) - General public	Frequency Range: 10 MHz ~ 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 50385:2017	wireless communicatio n devices	Product standard to demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits (110 MHz - 100 GHz), when placed on the market	Frequency Range: 110 MHz ~ 40 GHz	BS-2	N
EN 62311:2008	wireless communicatio n devices	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	Frequency Range: 20 Hz ~ 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
EN 62479:2010	wireless communicatio n devices	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)	Frequency Range: 10 MHz ~ 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
FCC Part 15	wireless communicatio n devices	Radio frequency devices	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
FCC Part 2	wireless communicatio n devices	Frequency allocations and radio treaty matters; general rules and regulations	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
FCC Part 22	wireless communicatio n devices	Public mobile services	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
FCC Part 24	wireless communicatio n devices	Personal communications services	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
FCC Part 27	wireless communicatio n devices	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
FCC Part 90	wireless communicatio n devices	PRIVATE LAND MOBILE RADIO SERVICES	Frequency Range: 9 kHz ~ 26.5 GHz	BS-2	N
FCC Part 96	wireless communicatio n devices	CITIZENS BROADBAND RADIO SERVICE	Frequency Range: 9 kHz ~ 40 GHz	BS-2	N
RSS-102 Issue 5	wireless communicatio n devices	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
RSS-210 Issue 10	wireless communicatio n devices	Licence-exempt Radio Apparatus: Category I Equipment	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
RSS-247 Issue 2	wireless communicatio n devices	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE- LAN) Devices	Frequency Range: 9 kHz ~ 40 GHz	BS-2	N
RSS-Gen Issue 5	wireless communicatio n devices	General Requirements and Information for the Certification of Radio Apparatus	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N
TS 151 010-1 V13.4.0	wireless communicatio n devices	Digital cellular telecommunications system (Phase 2+)(GSM); Mobile Station (MS) conformance specification; Part 1: Conformance specification (3GPP TS 51.010-1 version 13.4.0 Release 13)	Frequency Range: 9 kHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS-2	N

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03. Electrical Testing

03.009 Lighting devices

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60598-1:2015/A1:2018	Lighting devices	Luminaires - Part 1: General requirements and tests [Exception] 4.4.4 Lampholder (7006-47C for G5 lampholders, (7006-60C for G13, G13 lampholders) 4.24/Annex P Protective measures against UV radiation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 60598-2-1:1989	Lighting devices	Luminaires - Part 2-1: Particular requirements. Section One: Fixed general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 60598-2-2:2012	Lighting devices	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60598-2-3:2003+A1:2011	Lighting devices	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 60598-2-4:2018	Lighting devices	Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 60598-2-5:2015	Lighting devices	Luminaires - Part 2-5: Particular requirements - Floodlights	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 60598-2-8:2013	Lighting devices	Luminaires - Part 2-8: Particular requirements - Handlamps	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61347-1:2015	Lighting devices	Lamp controlgear - Part 1: General and safety requirements [Exception] 13. Thermal endurance test for windings of ballasts Annex B. Particular requirements for thermally protected lamp controlgear Annex H Tests Annex I Additional requirements for built-in magnetic ballasts with double or reinforced insulation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 61347-2- 13:2014	Lighting devices	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 62031:2008 +A1:2013+A2:201 5	Lighting devices	LED modules for general lighting - Safety specifications	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 62493:2010	Lighting devices	Assessment of lighting equipment related to human exposure to electromagnetic fields	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 62560:2012/A1:2 015/A11:2019	Lighting devices	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications [Exception] 5.2 c) Eye protection	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598- 1:2014/AMD1:201 7	Lighting devices	Luminaires - Part 1: General requirements and tests [Exception] 4.4.4 Lampholder (7006-47C for G5 lampholders, (7006-60C for G13, G13 lampholders) 4.24/Annex P Protective measures against UV radiation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598-1:2020	Lighting devices	Luminaires - Part 1: General requirements and tests [Exception] 4.4.4 Lampholder (7006-47C for G5 lampholders, (7006-60C for G13, G13 lampholders) 4.24.1 UV radiation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60598-2-1:2020	Lighting devices	Luminaires - Part 2-1: Particular requirements. Section One: Fixed general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598-2-2:2011	Lighting devices	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598-2-3:2002+A1:2011	Lighting devices	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598-2-4:2017	Lighting devices	Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60598-2-5:2015	Lighting devices	Luminaires - Part 2-5: Particular requirements - Floodlights	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598-2-8:2013	Lighting devices	Luminaires - Part 2-8: Particular requirements - Handlamps	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 61347-1:2015/AMD1:2017	Lighting devices	Lamp controlgear - Part 1: General and safety requirements [Exception] 13. Thermal endurance test for windings of ballasts Annex B. Particular requirements for thermally protected lamp controlgear Annex H Tests Annex I Additional requirements for built-in magnetic ballasts with double or reinforced insulation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61347-2-13:2014+A1:2016	Lighting devices	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 62031:2018	Lighting devices	LED modules for general lighting - Safety specifications	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 62471:2006	Lighting devices	Photobiological safety of lamps and lamp systems	Irradiance : (250 ~ 2 500) nm Radiance : (300 ~ 1 400) nm	BS	N
IEC 62493:2015	Lighting devices	Assessment of lighting equipment related to human exposure to electromagnetic fields	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62560:2011+A1:2 015	Lighting devices	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications [Exception] 5.2 c) Eye protection	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC TR 62778:2014	Lighting devices	Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires	Irradiance : (250 ~ 2 500) nm Radiance : (300 ~ 1 400) nm	BS	N
K 10005:2011	Lighting devices	Safety requirements for electrodeless fluorescent lamps	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
K 10006:2006	Lighting devices	PLS type electrodeless lamp safety requirements [except] 6.2 Power Density of Leakage Propagation 6.3 Radiation resistance, toxicity	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
K 62471-1:2009	Lighting devices	Photobiological safety of lamps and lamp systems	Irradiance : (250 ~ 2 500) nm Radiance : (300 ~ 1 400) nm	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 10023:2020	Lighting devices	Self - ballasted LED lamps for general lighting services	220 V, 60 Hz, 150 W or less, operation Temp: 10-30 °C Weight: 1 kg or less, Torque driver: 3 Nm or less, insulation resistance: More than 4 MΩ Cap temperature: 120 °C or less, Moment: More than 3 Nm	BS	N
KC 20001:2015	Lighting devices	Straight LED lamp- converter external	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 60598-1:2015	Lighting devices	Luminaires - Part 1: General requirements and tests [Exception] 4.4.4 Lampholder (7006-47C for G5 lampholders, (7006-60C for G13, G13 lampholders) 4.24 Annex P Protective measures against UV radiation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 60598-2- 1:2021	Lighting devices	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 60598-2-2:2021	Lighting devices	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 60598-2-3:2021	Lighting devices	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 60598-2-4:2021	Lighting devices	Luminaires - Part 2-4: Particular requirements - Portable general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 60598-2-5:2021	Lighting devices	Luminaires - Part 2-5: Particular requirements - Floodlights	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 60598-2-8:2021	Lighting devices	Luminaires - Part 2-8: Particular requirements - Handlamps	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 61347-1:2015	Lighting devices	Lamp controlgear - Part 1: General and safety requirements [Exception] 13. Thermal endurance test for windings of ballasts Annex B. Particular requirements for thermally protected lamp controlgear Annex H Tests Annex I Additional requirements for built-in magnetic ballasts with double or reinforced insulation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 61347-2-13:2015	Lighting devices	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 62031:2015	Lighting devices	LED modules for general lighting - Safety specifications	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7528:2020	Lighting devices	LED traffic signals [except] 9.17 Accelerated Weathering Test 9.21 Relative Luminous Transmittance Test	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7612:1987	Lighting devices	Illuminance measurements for lighting installations	100,000 lx	BS	N
KS C 7613:1999	Lighting devices	Methods of luminance measurements in lighting fields	1,000,000 cd/m ²	BS	N
KS C 7620:2003	Lighting devices	Railway car luminaries for fluorescent lamps [except] 7.13 Noise strength test 7.11 Luminous Ratio Test	Input voltage: DC. 220 V operation Temp. : 200 °C or less, Leakage current: Max. 10 mA Temperature: Max. 200 °C Electric strength: 5 kV, 100 mA Insulation resistance: More than 4 MΩ Earth continuity: Max 12 V, 40 A illuminance : Max 100,000 lx	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 7651:2022	Lighting devices	Self-ballasted LED lamps	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7652:2022	Lighting devices	Non-ballasted LED lamps	Input Voltage: Max 50 V insulation resistance: More than 4 MΩ Cap temperature: More than 120 °C	BS	N
KS C 7653:2021	Lighting devices	Recessed LED luminaires and Fixed LED luminaires	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7655:2021	Lighting devices	Electronic control gear for LED modules	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 7656:2021	Lighting devices	Portable LED/OLED luminaires	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7658:2021	Lighting devices	LED luminaires for road, street and area lighting	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7659:2018	Lighting devices	LED module for Channel Letter Signs- Safety and Performance Requirements	IP68 min temp: (-30 ± 2) °C max temp: (70 ± 2) °C	BS	N
KS C 7711:2021	Lighting devices	LED ground recessed luminaires	Input Voltage: Max 600 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 7712:2021	Lighting devices	LED flood-lighting luminaire	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7713:2021	Lighting devices	LED landscape lighting	Input Voltage: Max 600 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7716:2021	Lighting devices	LED tunnel luminaires	Input Voltage: Max 600 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7717:2021	Lighting devices	LED Crosswalk Luminaires	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 8000:1992	Lighting devices	Luminaires	insulation resistance :More than 4 MΩ Leakage current: 3.5 mA	BS	N
KS C 8010:2014	Lighting devices	Luminaries for road lighting	Input Voltage: Max 600 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 60598- 1:2014	Lighting devices	Luminaires - Part 1: General requirements and tests	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 60598-2- 1:2020	Lighting devices	Luminaires - Part 2-1: Particular requirements. Section One: Fixed general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60598-2-2:2011	Lighting devices	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 60598-2-3:2014	Lighting devices	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 60598-2-4:2017	Lighting devices	Luminaires - Part 2-4: Particular requirements - Portable general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 60598-2-5:2015	Lighting devices	Luminaires - Part 2-5: Particular requirements - Floodlights	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60598-2-8:2013	Lighting devices	Luminaires - Part 2-8: Particular requirements - Handlamps	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 61347-1:2015	Lighting devices	Lamp controlgear - Part 1: General and safety requirements	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 61347-2-13:2014	Lighting devices	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 62031:2018	Lighting devices	LED modules for general lighting - Safety specifications	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 62471:2008	Lighting devices	Photobiological safety of lamps and lamp systems	Irradiance : (250 ~ 2 500) nm Radiance : (300 ~ 1 400) nm	BS	N
KS C IEC 62560:2015	Lighting devices	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
National Police Agency, LED traffic lights: 2020	Lighting devices	Standard Guidelines for LED Traffic Lights [except] 2. Controller compatibility test 4.(9) Light-off response test 5.(3) Uniformity of luminance 5.(4) Sun Pamtum Test	Input Voltage: Max 250 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
National Police Agency, Standard Guidelines for Variable Traffic Safety Signs:2017	Lighting devices	Standard Guidelines for Variable Traffic Safety Signs [except] 10.2.4 Impact test 10.2.8 Luminance and Luminance Ratio Test 10.2.9 Luminance Uniformity and Chromaticity Test 10.2.10 Beam Width Test 10.2.12 Optical output frequency test	Input Voltage: Max 250 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
National Police Agency, Standard Guidelines for Auxiliary Devices for Floor-Type Pedestrian Traffic Lights:2019	Lighting devices	Standard Guidelines for Auxiliary Devices for Floor-Type Pedestrian Traffic Lights [except] 9.2.1 Slip resistance 9.2.5 Static load structure 9.2.19 Luminance Ratio 9.2.27 Light Off Response 9.2.28 Features	Input Voltage: Max 250 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
National Police Agency, Standard Guidelines for Illuminated and Illuminated Traffic Safety Signs:2018	Lighting devices	Standard Guidelines for Illuminated and Illuminated Traffic Safety Signs [except] 10.2.4 Impact test 10.2.8 Light sensitivity test 10.2.13 Retroreflective sheet test	Input Voltage: Max 250 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
ME Notice No.2022-1(01.03.2022.)	Lighting devices	Eco-labeled products and certification standards EL203 ballast built-in lamp EL209 LED lamp for general lighting EL210 LED luminaire [Exclusions] - Environmental standards - 8.5 of EL210 LED luminaires Detection type luminaire detection range test method	Rating Voltage: Max 1 000 V	BS	N

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03. Electrical Testing

03.011 EMC (Electromagnetic Compatibility)

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS CISPR 11:2017	Electronic devices	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
AS CISPR 11:2017	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
AS CISPR 14.1:2018	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS CISPR 14.1:2018	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS CISPR 15:2017	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
AS/NZS 61000.6.3:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 6.3: Generic standards - Emission standard for residential, commercial and light - industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS 61000.6.3:2012	Electronic devices	Generic standards - Emission standard for residential, commercial and light - industrial environment [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS 61000.6.3:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 6.3: Generic standards - Emission standard for residential, commercial and light - industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS 61000.6.3:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 6.3: Generic standards - Emission standard for residential, commercial and light - industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS 61000.6.4:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 6.4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS 61000.6.4:2012	Electronic devices	Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS/NZS CISPR 11:2011	Electronic devices	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 11:2011	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 13:2012	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 13:2012	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 14.1:2013	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS/NZS CISPR 14.1:2013	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 14.1:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 14.1:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 15:2011	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 22:2009 +A1:2010	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measure [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 22:2009+A1:2010	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 32:2013	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS/NZS CISPR 32:2013	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 32:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 32:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 32:2015 +A1:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 32:2015 +A1:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
CISPR 11:2009 +A1:2010	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 11:2009 +A1:2010	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 11:2015	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 11:2015	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment ? Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
CISPR 11:2015 +A1:2016	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
CISPR 11:2015 +A1:2016	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 11:2015 +A1:2016 +A2:2019	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [exception] 6.2 rated input power 20 kVA over, 30 m measuring distance [exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
CISPR 11:2015 +A1:2016 +A2:2019	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 13:2009(modified)	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
CISPR 13:2009(modified)	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 14-1:2005 +A1:2008 +A2:2011	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 14-1:2005 +A1:2008 +A2:2011	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 14-1:2016 +ISH1:2017	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 14-1:2016 +ISH1:2017	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
CISPR 14-1:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 14-1:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
CISPR 14-2:1997 +A2:2008	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 14-2:1997 +A2:2008	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
CISPR 14-2:2015	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
CISPR 14-2:2015	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
CISPR 14-2:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
CISPR 14-2:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
CISPR 15:2013 + IS1:2013 + IS2:2013	Electronic devices	Limits and methods of measurement of radio distur bance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 15:2013 +A1:2015	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 15:2018	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion los	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 22:2008	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
CISPR 22:2008	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 24:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N
CISPR 24:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
CISPR 24:2010 +A1:2015	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 24:2010 +A1:2015	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
CISPR 25:2008/COR1:20 09	Electronic devices	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	RE: 150 kHz ~ 2.5 GHz CE: 150 kHz ~ 108 MHz	BS	N
CISPR 25:2016	Electronic devices	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	RE: 150 kHz ~ 2.5 GHz CE: 150 kHz ~ 108 MHz	BS	N
CISPR 32:2012	Electronic devices	Electromagnetic compatibility of multimedia equipment- Emission requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
CISPR 32:2012	Electronic devices	Electromagnetic compatibility of multimedia equipment- Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 32:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 32:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 32:2015 +A1:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 32:2015 +A1:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 32:2015 /COR1:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
CISPR 32:2015 /COR1:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 35:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS	N
CISPR 35:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 1060- 3:1997+A2:2009	Electronic devices	Non-invasive sphygmomanometers - Part 3:Supplementary requirements for electro-mechanical blood pressure measuring systems	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 1060- 3:1997+A2:2009	Electronic devices	Non-invasive sphygmomanometers - Part 3:Supplementary requirements for electro-mechanical blood pressure measuring systems [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 50130-4:2011 +A1:2014	Electronic devices	Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder and social alarm systems [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±30 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz V-DIP: 20 %, 30 %, 60 %, 100 %	BS-1	N
EN 50130-4:2011 +A1:2014	Electronic devices	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	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±30 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz V-DIP: 20 %, 30 %, 60 %, 100 %	BS	N
EN 55011:2009 +A1:2010	Electronic devices	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55011:2009 +A1:2010	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55011:2016	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m test method 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55011:2016	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55011:2016 +A1:2017	Electronic devices	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55011:2016 +A1:2017	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55011:2016 +A1:2017 +A2:2021	Electronic devices	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55011:2016 +A1:2017 +A2:2021	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55013:2013	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55013:2013	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 55013:2013 +A1:2016	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55013:2013 +A1:2016	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55014-1:2006 +A1:2009 +A2:2011	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 55014-1:2006 +A1:2009 +A2:2011	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55014-1:2017	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55014-1:2017	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55014- 1:2017+A11:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55014- 1:2017+A11:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55014-2:1997 +A2:2008	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55014-2:1997 +A2:2008	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN 55014-2:2015	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
EN 55014-2:2015	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN 55015:2013	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55015:2013 +A1:2015	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55022:2010 /AC:2011	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55022:2010 /AC:2011	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55024:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N
EN 55024:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
EN 55024:2010 +A1:2015	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N
EN 55024:2010 +A1:2015	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
EN 55032:2012/AC:2 013	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 55032:2012/AC:2 013	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55032:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55032:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55032:2015 +A11:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 55032:2015 +A11:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55032:2015 +A1:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 55032:2015 +A1:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55035:2017	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS	N
EN 55035:2017	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 55035:2017 +A11:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS	N
EN 55035:2017 +A11:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-1-11:2015	Electronic devices	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	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-1-11:2015	Electronic devices	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 [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-1-12:2015	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-1-12:2015	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-1-12:2015 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-1-12:2015 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-1-2:2015	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-1-2:2015	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-1-2:2015 +A1:2021	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-1-2:2015 +A1:2021	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-25:2015	Electronic devices	Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-2-25:2015	Electronic devices	Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-26:2015	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-2-26:2015	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-27:2014	Electronic devices	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-2-27:2014	Electronic devices	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-34:2014	Electronic devices	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-2-34:2014	Electronic devices	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-37:2008 +A1:2015	Electronic devices	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-2-37:2008 +A1:2015	Electronic devices	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-49:2015	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-2-49:2015	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-4:2011	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-2-4:2011	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-4:2011 +A1:2019	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-2-4:2011 +A1:2019	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 61000-3-2:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current ≤ 16 A per phase)	one-phase 380 V, 16 A	BS-1	N
EN 61000-3-2:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current ≤ 16 A per phase)	three-phase 380 V, 16 A	BS	N
EN 61000-3-3:2013	Electronic devices	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	one-phase 380 V, 16 A	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-3-3:2013	Electronic devices	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	three-phase 380 V, 16 A	BS	N
EN 61000-3-3:2013+A1:2019	Electronic devices	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	3 phase 380 V, 16 A	BS	N
EN 61000-3-3:2013+A1:2019	Electronic devices	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	one phase 380 V, 16 A	BS-1	N
EN 61000-3-3:2013+A1:2019+A2:2021	Electronic devices	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	3 phase 380 V, 16 A	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-3-3:2013+A1:2019+A2:2021	Electronic devices	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	3 phase 380 V, 16 A	BS-1	N
EN 61000-4-11:2004	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0~100) %	BS	N
EN 61000-4-11:2004	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0~100) %	BS-1	N
EN 61000-4-11:2004 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0~100) %	BS	N
EN 61000-4-11:2004 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0~100) %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-4-13:2002 +A2:2016	Electronic devices	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	three-phase 380 V, 16 A	BS	N
EN 61000-4-29:2001	Electronic devices	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	V-DIP: (0 ~ 100) %	BS	N
EN 61000-4-2:2009	Electronic devices	Electromagnetic compatibility (EMC)-Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	±30 kV	BS	N
EN 61000-4-2:2009	Electronic devices	Electromagnetic compatibility (EMC)-Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	±30 kV	BS-1	N
EN 61000-4-3:2006 +A1:2008+A2:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
EN 61000-4-3:2006 +A1:2008+A2:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-4-4:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	±4 kV	BS	N
EN 61000-4-4:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	±4 kV	BS-1	N
EN 61000-4-5:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	±15 kV	BS	N
EN 61000-4-5:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N
EN 61000-4-5:2014+A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	±15 kV	BS	N
EN 61000-4-5:2014+A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-4-6:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
EN 61000-4-6:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
EN 61000-4-6:2014/AC:2015	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
EN 61000-4-6:2014/AC:2015	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
EN 61000-4-8:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	30 A/m	BS	N
EN 61000-4-8:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test [Exception] 3 phase	30 A/m	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-6-1:2007	Electronic devices	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: 30 %, 100 %	BS	N
EN 61000-6-1:2007	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments [exception] 3 phase	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: 30 %, 100 %	BS-1	N
EN 61000-6-2:2005	Electronic devices	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: 30 %, 60 %, 100 %	BS	N
EN 61000-6-2:2005	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments [exception] 3 phase	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: 30 %, 60 %, 100 %	BS-1	N
EN 61000-6-3:2007+A1:2011	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 61000-6-3:2007+A1:2011	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environment [exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 61000-6-4:2007+A1:2011	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-6-4:2007+A1:2011	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments [exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 61204-3:2000	Electronic devices	Low voltage power supplies, d.c. output - Part 3: Electromagnetic compatibility (EMC)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±30 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 60 %, >95 %	BS	N
EN 61204-3:2000	Electronic devices	Low voltage power supplies, d.c. output - Part 3: Electromagnetic compatibility (EMC) [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±30 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 60 %, >95 %	BS-1	N
EN 61326-1:2013	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz 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: 30 %, 60 %, 100 %	BS	N
EN 61326-1:2013	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz 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: 30 %, 60 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61326-2-6:2013	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	RE: 9 kHz ~ 18 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: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
EN 61326-2-6:2013	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment [Exception] 3 phase	RE: 9 kHz ~ 18 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: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN 61547:2009	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
EN 61547:2009	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 61800-3:2004+A1:2012	Electronic devices	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	RE: 30 kHz ~ 1 GHz CE: 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: (0 ~ 100) %	BS	N
EN 80601-2-30:2010+A1:2015	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 80601-2-30:2010+A1:2015	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN IEC 55014-1:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
EN IEC 55014-1:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN IEC 55014-2:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
EN IEC 55014-2:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN IEC 55015:2019	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 61000-3-2:2019	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current \leq 16 A per phase)	3 phase 380 V, 16 A	BS	N
EN IEC 61000-3-2:2019	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current \leq 16 A per phase)	one phase 380 V, 16 A	BS-1	N
EN IEC 61000-3-2:2019 +A1:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	three-phase 380 V, 16 A	BS	N
EN IEC 61000-3-2:2019 +A1:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase) [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
EN IEC 61000-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0~100) %	BS	N
EN IEC 61000-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0~100) %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 61000-4-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
EN IEC 61000-4-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
EN IEC 61000-6-1:2019	Electronic devices	Generic standards - Immunity for residential, commercial and light-industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
EN IEC 61000-6-1:2019	Electronic devices	Generic standards - Immunity for residential, commercial and light-industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
EN IEC 61000-6-2:2019	Electronic devices	Generic standards - Immunity for industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
EN IEC 61000-6-2:2019	Electronic devices	Generic standards - Immunity for industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 61000-6-3:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN IEC 61000-6-3:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environment [exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN IEC 61000-6-4:2019	Electronic devices	Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN IEC 61000-6-4:2019	Electronic devices	Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN IEC 61000-6-8:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN IEC 61000-6-8:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN IEC 61204-3:2018	Electronic devices	Low voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC)	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 1 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 60 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 61204-3:2018	Electronic devices	Low voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC) [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 1 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN IEC 61326-1:2021	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz 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: 30 %, 60 %, 100 %	BS	N
EN IEC 61326-1:2021	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz 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: 30 %, 60 %, 100 %	BS-1	N
EN IEC 61326-2-6:2021	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	RE: 9 kHz ~ 18 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: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
EN IEC 61326-2-6:2021	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment [Exception] 3 phase	RE: 9 kHz ~ 18 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: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 61800-3:2018	Electronic devices	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	RE: 30 kHz ~ 1 GHz CE: 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: (0 ~ 100) %	BS	N
EN IEC 80601-2-30:2019	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN IEC 80601-2-30:2019	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN IEC 80601-2-49:2019	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN IEC 80601-2-49:2019	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-55:2011	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN ISO 80601-2-55:2011	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-55:2018	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN ISO 80601-2-55:2018	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-56:2012	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN ISO 80601-2-56:2012	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-56:2017	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN ISO 80601-2-56:2017	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-56:2017+A1:2020	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN ISO 80601-2-56:2017+A1:2020	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-61:2011	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN ISO 80601-2-61:2011	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN ISO 80601-2-61:2019	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN ISO 80601-2-61:2019	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-1 V2.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-1 V2.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-1 V2.2.0:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-1 V2.2.0:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-1 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-1 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-1 V2.2.2:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-1 V2.2.2:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-1 V2.2.3:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-1 V2.2.3:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-13 V1.2.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-13 V1.2.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-15 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 15: Specific conditions for commercially available amateur radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-15 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 15: Specific conditions for commercially available amateur radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-17 V3.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions For Broadband Data Transmission Systems;	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-17 V3.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions For Broadband Data Transmission Systems;	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-17 V3.2.0:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-17 V3.2.0:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-17 V3.2.4:2020	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-17 V3.2.4:2020	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-18 V1.3.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-18 V1.3.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-19 V2.1.1:2019	Electronic devices	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	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-19 V2.1.1:2019	Electronic devices	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	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-2 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 2: Specific conditions for radio paging equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-2 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 2: Specific conditions for radio paging equipment;	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489- 20 V2.1.1:2019	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489- 20 V2.1.1:2019	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489- 20 V2.1.2:2021	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-20 V2.1.2:2021	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-23 V1.5.1:2011	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-23 V1.5.1:2011	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-24 V1.5.1:2010	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility(EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-24 V1.5.1:2010	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility(EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-25 V2.3.2:2005	Electronic devices	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-25 V2.3.2:2005	Electronic devices	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-26 V2.3.2:2005	Electronic devices	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-26 V2.3.2:2005	Electronic devices	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; 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 ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-3 V2.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-3 V2.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-3 V2.1.2:2021	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-3 V2.1.2:2021	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-34 V2.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-34 V2.1.1:2017	Electronic devices	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-4 V3.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-4 V3.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-5 V2.2.1:2019	Electronic devices	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)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-5 V2.2.1:2019	Electronic devices	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)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489- 50 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489- 50 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489- 50 V2.2.2:2020	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489- 50 V2.2.2:2020	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-51 V2.1.1:2019	Electronic devices	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	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-51 V2.1.1:2019	Electronic devices	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	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-52 V1.1.0:2016	Electronic devices	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-52 V1.1.0:2016	Electronic devices	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-52 V1.1.2:2020	Electronic devices	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-52 V1.1.2:2020	Electronic devices	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-6 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-6 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-7 V1.3.1:2005	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-7 V1.3.1:2005	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-8 V1.2.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 8: Specific conditions for GSM base stations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-8 V1.2.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 8: Specific conditions for GSM base stations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-9 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-9 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in- ear monitoring devices	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30%, 100 %	BS	N
ETSI EN 303 340 V1.1.2:2016	Electronic devices	Digital Terrestrial TV Broadcast Receivers; Harmonised Standard covering the essential requirements	Adjacent signal selectivity Dynamic range	BS-1	N
ETSI EN 303 372-2 V1.1.1:2016	Electronic devices	Satellite Earth Stations and Systems (SES); Satellite broadcast reception equipment;	Receiver sensitivity Receiver adjacent channel Receiver selectivity Receiver Blocking Receiver overloading	BS-1	N
FCC PART 15	Electronic devices	Radio frequency devices	RE: 30 MHz ~ 40 GHz CE: 150 kHz ~ 30 MHz	BS	N
FCC PART 15	Electronic devices	Radio frequency devices [Exception] 3 phase	RE: 30 MHz ~ 40 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
FCC PART 18	Electronic devices	Industrial, scientific, and medical equipment	RE: 9 kHz ~ 40 GHz CE: 9 kHz ~ 30 MHz	BS	N
FCC PART 18	Electronic devices	Industrial, scientific, and medical equipment [Exception] 3 phase	RE: 9 kHz ~ 40 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
ICES-003	Electronic devices	Information Technology Equipment (Including Digital Apparatus) - Limits and Methods of Measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
ICES-003	Electronic devices	Information Technology Equipment (Including Digital Apparatus) - Limits and Methods of Measurement [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-1-11:2015	Electronic devices	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	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-11:2015	Electronic devices	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 [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-1-11:2015 +A1:2020	Electronic devices	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	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-11:2015 +A1:2020	Electronic devices	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 [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-1-12:2014	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-1-12:2014	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-12:2014 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-1-12:2014 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-2:2014	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-2:2014	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-1-2:2014 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-2:2014 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-2-25:2011	Electronic devices	Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs	RE: 9 KHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-25:2011	Electronic devices	Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs [Exception] 3 phase	RE: 9 KHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-26:2012	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs	RE: 9 KHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-26:2012	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [Exception] 3 phase	RE: 9 KHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-26:2019	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs	RE: 9 KHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-27:2011 / COR1:2012	Electronic devices	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-2-27:2011 / COR1:2012	Electronic devices	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-34:2011	Electronic devices	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-34:2011	Electronic devices	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-37:2007 +A1:2015	Electronic devices	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-37:2007 +A1:2015	Electronic devices	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-2-49:2011	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-49:2011	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-4:2010	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-4:2010	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-4:2010 +A1:2018	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-4:2010 +A1:2018	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-3-2:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	three-phase 380 V, 16 A	BS	N
IEC 61000-3-2:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase) [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
IEC 61000-3-2:2018	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	three-phase 380 V, 16 A	BS	N
IEC 61000-3-2:2018	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase) [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
IEC 61000-3-2:2018 +A1:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	three-phase 380 V, 16 A	BS	N
IEC 61000-3-2:2018 +A1:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase) [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-3-3:2013	Electronic devices	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 [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
IEC 61000-3-3:2013	Electronic devices	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	three-phase 380 V, 16 A	BS	N
IEC 61000-3-3:2013 +A1:2017	Electronic devices	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 [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
IEC 61000-3-3:2013 +A1:2017	Electronic devices	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	three-phase 380 V, 16 A	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-3-3:2013 +A1:2017 +A2:2021	Electronic devices	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 [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
IEC 61000-3-3:2013 +A1:2017 +A2:2021	Electronic devices	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	three-phase 380 V, 16 A	BS	N
IEC 61000-4-11:2004	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0 ~ 100) %	BS	N
IEC 61000-4-11:2004	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0 ~ 100) %	BS-1	N
IEC 61000-4-11:2004 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0 ~ 100) %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-4-11:2004 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0 ~ 100) %	BS-1	N
IEC 61000-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0~100) %	BS-1	N
IEC 61000-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	V-DIP: (0~100) %	BS	N
IEC 61000-4-13:2002 +A2:2015	Electronic devices	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	three-phase 380 V, 16 A	BS	N
IEC 61000-4-29:2000	Electronic devices	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	V-DIP: (0 ~ 100) %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-4-2:2008	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	±30 kV	BS	N
IEC 61000-4-2:2008	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	±30 kV	BS-1	N
IEC 61000-4-3:2006 +A1:2007 +A2:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
IEC 61000-4-3:2006 +A1:2007 +A2:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
IEC 61000-4-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
IEC 61000-4-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-4-4:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	±4 kV	BS	N
IEC 61000-4-4:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	±4 kV	BS-1	N
IEC 61000-4-5:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	±15 kV	BS	N
IEC 61000-4-5:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test [Exception] 3 phase	±15 kV	BS-1	N
IEC 61000-4-5:2014 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	±15 kV	BS	N
IEC 61000-4-5:2014 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-4-6:2013	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
IEC 61000-4-6:2013	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
IEC 61000-4-8:2009	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	30 A/m	BS	N
IEC 61000-4-8:2009	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test [Exception] 3 phase	30 A/m	BS-1	N
IEC 61000-6-1:2005	Electronic devices	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: 30 %, 100 %	BS	N
IEC 61000-6-1:2005	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light - industrial environments [Exception] 3 phase	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: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-6-1:2016	Electronic devices	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 EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
IEC 61000-6-1:2016	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 61000-6-2:2005	Electronic devices	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: 30 %, 60 %, 100 %	BS	N
IEC 61000-6-2:2005	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments [Exception] 3 phase	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: 30 %, 60 %, 100 %	BS-1	N
IEC 61000-6-2:2016	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
IEC 61000-6-2:2016	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 61000-6-3:2006 +A1:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-6-3:2006 +A1:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
IEC 61000-6-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
IEC 61000-6-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
IEC 61000-6-4:2006 +A1:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
IEC 61000-6-4:2006 +A1:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
IEC 61000-6-4:2018	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
IEC 61000-6-4:2018	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-6-8:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
IEC 61000-6-8:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
IEC 61204-3:2016	Electronic devices	Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz 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: 20 %, 30 %, 60 %, 100 %	BS	N
IEC 61204-3:2016	Electronic devices	Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC) [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz 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: 20 %, 30 %, 60 %, 100 %	BS-1	N
IEC 61326-1:2012	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz 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: 30 %, 60 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61326-1:2012	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz 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: 30 %, 60%, 100 %	BS-1	N
IEC 61326-1:2020	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz 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: 30 %, 60%, 100 %	BS	N
IEC 61326-1:2020	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz 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: 30 %, 60%, 100 %	BS-1	N
IEC 61326-2- 6:2012	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	RE: 9 KHz ~ 18 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: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
IEC 61326-2- 6:2012	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment [Exception] 3 phase	RE: 9 KHz ~ 18 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: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61326-2-6:2020	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	RE: 9 KHz ~ 18 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: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
IEC 61326-2-6:2020	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment [Exception] 3 phase	RE: 9 KHz ~ 18 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: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
IEC 61547:2009	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
IEC 61547:2009	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 61547:2020	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
IEC 61547:2020	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61800-3:2004 +A1:2011	Electronic devices	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	RE: 30 kHz ~ 1 GHz CE: 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: (0 ~ 100) %	BS	N
IEC 61800-3:2017	Electronic devices	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	RE: 30 kHz ~ 1 GHz CE: 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: (0 ~ 100) %	BS	N
IEC 80601-2- 26:2019	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 80601-2- 30:2009	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 80601-2- 30:2009	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 80601-2- 30:2009 +A1:2013	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 80601-2-30:2009 +A1:2013	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 80601-2-30:2018	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 80601-2-30:2018	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 80601-2-49:2018	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 80601-2-49:2018	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 7637-2:2004	Electronic devices	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only	12 V and 24 V system	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ISO 7637-2:2011	Electronic devices	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only	12 V and 24 V system	BS	N
ISO 80601-2- 55:2011	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2- 55:2011	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 80601-2- 55:2018	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2- 55:2018	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 80601-2- 56:2009	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ISO 80601-2-56:2009	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 80601-2-56:2017	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2-56:2017	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 80601-2-56:2017 +A1:2018	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2-56:2017 +A1:2018	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ISO 80601-2-61:2011	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2-61:2011	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 80601-2-61:2017	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2-61:2017	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
KN 60945:2015	Electronic devices	Maritime navigation and radio communication equipment and systems. General requirements. Methods of testing and required test results	RE: 150 kHz ~ 2 GHz CE: 10 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.0 GHz EFT: ±2 kV SURGE: ±1 kV CS: 150 kHz ~ 80 MHz V-DIP: ±10 %, ±20 %, 100 %	BS	N
KN 60945:2015	Electronic devices	Electromagnetic compatibility standard for Maritime navigation radio equipment and Marine electric and electronic equipment [Exception] 3 phase	RE: 150 kHz ~ 2 GHz CE: 10 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.0 GHz EFT: ±2 kV SURGE: ±1 kV CS: 150 kHz ~ 80 MHz V-DIP: ±10 %, ±20 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9547:2020	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
KS C 9547:2020	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
KS C 9610-3- 2:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 3-2: Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	one phase 380 V, 16 A	BS-1	N
KS C 9610-3- 2:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 3-2: Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	3 phase 380 V, 16 A	BS	N
KS C 9610-3- 3:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems (equipment input current ≤ 16 A per phase)	3 phase 380 V, 16 A	BS	N
KS C 9610-3- 3:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems (equipment input current ≤ 16 A per phase)	one phase 380 V, 16 A	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9610-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-11: test and method - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0 ~ 100) %	BS	N
KS C 9610-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-11: test and method - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0 ~ 100) %	BS-1	N
KS C 9610-4-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-2: test and method - Electrostatic discharge immunity test	±30 kV	BS	N
KS C 9610-4-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-2: test and method - Electrostatic discharge immunity test [Exception] 3 phase	±30 kV	BS-1	N
KS C 9610-4-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-3: test and method - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
KS C 9610-4-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-3: test and method - Radiated, radio-frequency, electromagnetic field immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
KS C 9610-4-4:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-4: test and method - Electrical fast transient/burst immunity test	±4 kV	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9610-4-4:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-4: test and method - Electrical fast transient/burst immunity test [Exception] 3 phase	±4 kV	BS-1	N
KS C 9610-4-5:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-5: test and method - Surge immunity test	±15 kV	BS	N
KS C 9610-4-5:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-5: test and method - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N
KS C 9610-4-6:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-6: test and method - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
KS C 9610-4-6:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-6: test and method - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
KS C 9610-4-8:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-8: test and method - Power frequency magnetic field immunity test	30 A/m	BS	N
KS C 9610-4-8:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-8: test and method - Power frequency magnetic field immunity test [Exception] 3 phase	30 A/m	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9610-6-1:2019	Electronic devices	Electromagnetic compatibility (EMC) - part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
KS C 9610-6-1:2019	Electronic devices	Electromagnetic compatibility (EMC) - part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
KS C 9610-6-2:2019	Electronic devices	Electromagnetic compatibility (EMC) - part 6-2: Generic standards - Immunity for industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
KS C 9610-6-2:2019	Electronic devices	Electromagnetic compatibility (EMC) - part 6-2: Generic standards - Immunity for industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
KS C 9610-6-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
KS C 9610-6-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9610-6-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-4: Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
KS C 9610-6-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
KS C 9800-3:2017	Electronic devices	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	RE: 30 kHz ~ 1 GHz CE: 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: (0 ~ 100) %	BS	N
KS C 9811:2019	Electronic devices	Industrial, scientific and medical (ISM) equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
KS C 9811:2019	Electronic devices	Industrial, scientific and medical (ISM) equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance, 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
KS C 9814-1:2020	Electronic devices	Electromagnetic compatibility (EMC) - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9814-1:2020	Electronic devices	Electromagnetic compatibility (EMC) - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
KS C 9814-2:2020	Electronic devices	Electromagnetic compatibility (EMC) - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
KS C 9814-2:2020	Electronic devices	Electromagnetic compatibility (EMC) - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
KS C 9815:2019	Electronic devices	Limits and methods of measurement of radio distur bance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
KS C 9832:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
KS C 9832:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
KS C 9835:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9835:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements [Exception] 3 phase	ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS-1	N
KS C 9991:2019	Electronic devices	Limits and methods of measurement of meter equipment	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N
KS C 9991:2019	Electronic devices	Limits and methods of measurement of meter equipment [Exception] 3 phase	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
KS C 9992:2019	Electronic devices	Limits and methods of measurement of meter equipment	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 1 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m	BS	N
KS C 9992:2019	Electronic devices	Limits and methods of measurement of meter equipment [Exception] 3 phase	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 1 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m	BS-1	N
KS C 9994:2021	Electronic devices	Limits and methods of measurement of electric bicycle	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 20 MHz ~ 2 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
KS C CISPR11:2017	Electronic devices	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance, 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C CISPR11:2017	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
KS C IEC 60601-1- 2:2012	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
KS C IEC 60601-1- 2:2012	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
KS C IEC 60601-1- 2:2020	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
KS C IEC 60601-1- 2:2020	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC61000-3-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current \leq 16 A per phase)	one phase 380 V, 16 A	BS-1	N
KS C IEC61000-3-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current \leq 16 A per phase)	3 phase 380 V, 16 A	BS	N
KS C IEC61000-3-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection	one phase 380 V, 16 A	BS-1	N
KS C IEC61000-3-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection	3 phase 380 V, 16 A	BS	N
KS C IEC61000-4-11:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-11: Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0 ~ 100) %	BS	N
KS C IEC61000-4-11:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-11: Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0 ~ 100) %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC61000-4-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-2: test and method - Electrostatic discharge immunity test	±30 kV	BS	N
KS C IEC61000-4-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-2: test and method - Electrostatic discharge immunity test [Exception] 3 phase	±30 kV	BS-1	N
KS C IEC61000-4-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-3: test and method - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
KS C IEC61000-4-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-3: test and method - Radiated, radio-frequency, electromagnetic field immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
KS C IEC61000-4-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-4: test and method - Electrical fast transient/burst immunity test	±4 kV	BS	N
KS C IEC61000-4-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-4: test and method - Electrical fast transient/burst immunity test [Exception] 3 phase	±4 kV	BS-1	N
KS C IEC61000-4-5:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-5: test and method - Surge immunity test	±15 kV	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC61000-4-5:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-5: test and method - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N
KS C IEC61000-4-6:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-6: test and method - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
KS C IEC61000-4-6:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-6: test and method - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
KS C IEC61000-4-8:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-8: test and method - Power frequency magnetic field immunity test	30 A/m	BS	N
KS C IEC61000-4-8:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-8: test and method - Power frequency magnetic field immunity test [Exception] 3 phase	30 A/m	BS-1	N
KS C IEC61000-6-1:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
KS C IEC61000-6-1:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC61000-6-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-2: Generic standards - Immunity for industrial environments [Exception] 3 phase	ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 2 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
KS C IEC61000-6-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-2: Generic standards - Immunity for industrial environments	ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 2 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
KS C IEC61000-6-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-4: Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
KS C IEC61000-6-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-4: Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
KS X 3124:2020	Electronic devices	Electromagnetic compatibility standard for radio paging equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3124:2020	Electronic devices	Electromagnetic compatibility standard for radio paging equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3125:2020	Electronic devices	Electromagnetic compatibility standard for Short-Range Devices (SRD)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3125:2020	Electronic devices	Electromagnetic compatibility standard for Short-Range Devices (SRD)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3126:2020	Electronic devices	Electromagnetic compatibility standard for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3126:2020	Electronic devices	Electromagnetic compatibility standard for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3127:2014	Electronic devices	Electromagnetic compatibility standard for Private land Mobile Radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3127:2014	Electronic devices	Electromagnetic compatibility standard for Private land Mobile Radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3128:2014	Electronic devices	Electromagnetic compatibility standard for Digital Enhanced Cordless Telecommunications equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3128:2014	Electronic devices	Electromagnetic compatibility standard for Digital Enhanced Cordless Telecommunications equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3129:2020	Electronic devices	Electromagnetic compatibility standard for mobile subscription radio telephone equipment and radio equipment for personal cell phones	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3129:2020	Electronic devices	Electromagnetic compatibility standard for mobile subscription radio telephone equipment and radio equipment for personal cell phones	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3130:2014	Electronic devices	Electromagnetic compatibility standard for audio and audio signal transmission Short-Range Devices	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3130:2014	Electronic devices	Electromagnetic compatibility standard for audio and audio signal transmission Short-Range Devices	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3131:2014	Electronic devices	Electromagnetic compatibility standard for Citizens' Band (CB) radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3131:2014	Electronic devices	Electromagnetic compatibility standard for Citizens' Band (CB) radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3132:2014	Electronic devices	Electromagnetic compatibility standard for TRS equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3132:2014	Electronic devices	Electromagnetic compatibility standard for TRS equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3134:2014	Electronic devices	Electromagnetic compatibility standard for Implantable wireless medical equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3134:2014	Electronic devices	Electromagnetic compatibility standard for Implantable wireless medical equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3135:2020	Electronic devices	Electromagnetic compatibility standard for Mobile phone, personal cell phone, mobile communication base station, wireless repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3135:2020	Electronic devices	Electromagnetic compatibility standard for Mobile phone, personal cell phone, mobile communication base station, wireless repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3136:2014	Electronic devices	Electromagnetic compatibility standard for amateur radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3136:2014	Electronic devices	Electromagnetic compatibility standard for amateur radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3137:2014	Electronic devices	Electromagnetic compatibility standard for radio paging equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3137:2014	Electronic devices	Electromagnetic compatibility standard for radio paging equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3138:2015	Electronic devices	Electromagnetic compatibility standard for Ground and Wall Probing Radar applications	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3138:2015	Electronic devices	Electromagnetic compatibility standard for Ground and Wall Probing Radar applications	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3139:2014	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3139:2014	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3140:2014	Electronic devices	Electromagnetic compatibility standard for Maritime navigation radio equipment and Marine electric and electronic equipment	RE: 150 kHz ~ 2 GHz CE: 10 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.0 GHz EFT: ±2 kV SURGE: ±1 kV CS: 150 kHz ~ 80 MHz V-DIP: ±10 %, ±20 %, 100 %	BS-1	N
KS X 3140:2014	Electronic devices	Electromagnetic compatibility standard for Maritime navigation radio equipment and Marine electric and electronic equipment	RE: 150 kHz ~ 2 GHz CE: 10 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.0 GHz EFT: ±2 kV SURGE: ±1 kV CS: 150 kHz ~ 80 MHz V-DIP: ±10 %, ±20 %, 100 %	BS	N
KS X 3143:2020	Electronic devices	Limits and methods of measurement of Home wireless power transmission equipment	RE: 9 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3143:2020	Electronic devices	Limits and methods of measurement of Home wireless power transmission equipment	RE: 9 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N
QCVN 103:2016/BTTTT	Electronic devices	Electromagnetic compatibility for Base Station, Repeater, ancillary equipment of digital cellular telecommunications systems GSM, W-CDMA FDD and LTE	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
QCVN 103:2016/BTTTT	Electronic devices	Electromagnetic compatibility for Base Station, Repeater, ancillary equipment of digital cellular telecommunications systems GSM, W-CDMA FDD and LTE	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
QCVN 112:2017/BTTTT	Electronic devices	General electromagnetic compatibility for radio broadband data transmission equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
QCVN 112:2017/BTTTT	Electronic devices	General electromagnetic compatibility for radio broadband data transmission equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
QCVN 118:2018/BTTTT	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
QCVN 118:2018/BTTTT	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
QCVN 18:2014/BTTTT	Electronic devices	General electromagnetic compatibility for radio communications equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
QCVN 18:2014/BTTTT	Electronic devices	General electromagnetic compatibility for radio communications equipment [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
QCVN 86:2019/BTTTT	Electronic devices	Electromagnetic compatibility for mobile terminals and ancillary equipment of digital cellular telecommunication systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
QCVN 86:2019/BTTTT	Electronic devices	Electromagnetic compatibility for mobile terminals and ancillary equipment of digital cellular telecommunication systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
QCVN 96:2015 BTTTT	Electronic devices	Electromagnetic compatibility for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
QCVN 96:2015 BTTTT	Electronic devices	Electromagnetic compatibility for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 211:2010	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
SANS 211:2010	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
SANS 213:2011	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
SANS 213:2011	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
SANS 214-1:2009	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 214-1:2009	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
SANS 214-2:2009	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
SANS 214-2:2009	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
SANS 215:2009	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
SANS 2200:2010	Electronic devices	Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV EFT: ±1 kV	BS	N
SANS 222:2009	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 222:2009	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
SANS 224:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N
SANS 224:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
SANS 2332:2017	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
SANS 2332:2017	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
SANS 2335:2018	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS	N
SANS 2335:2018	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 60601-1-2:2014	Electronic devices	Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 30 MHz ~ 18 GHz CE: 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: 30 %, 60 %, >95 %	BS	N
SANS 60601-1-2:2014	Electronic devices	Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 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: 30 %, 60 %, >95 %	BS-1	N
SANS 61000-3-2:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	3 상 380 V, 16 A	BS	N
SANS 61000-3-2:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	one-phase 380 V, 16 A	BS-1	N
SANS 61000-3-3:2009	Electronic devices	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	one-phase 380 V, 16 A	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 61000-3-3:2009	Electronic devices	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	3 상 380 V, 16 A	BS	N
SANS 61000-4-11:2005	Electronic devices	Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0 ~ 100) %	BS	N
SANS 61000-4-11:2005	Electronic devices	Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0 ~ 100) %	BS-1	N
SANS 61000-4-2:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	± 30 kV	BS	N
SANS 61000-4-2:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	± 30 kV	BS-1	N

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SANS 61000-4-3:2008	Electronic devices	Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
SANS 61000-4-3:2008	Electronic devices	Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
SANS 61000-4-4:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	±4 kV	BS	N
SANS 61000-4-4:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test [Exception] 3 phase	±4 kV	BS-1	N
SANS 61000-4-5:2006	Electronic devices	Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test	±15 kV	BS	N
SANS 61000-4-5:2006	Electronic devices	Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 61000-4-6:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
SANS 61000-4-6:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
SANS 61000-4-8:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	30 A/m	BS	N
SANS 61000-4-8:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test [Exception] 3 phase	30 A/m	BS-1	N
SANS 61000-6-1:2005	Electronic devices	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: 30 %, 100 %	BS	N
SANS 61000-6-1:2005	Electronic devices	Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments [Exception] 3 phase	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: 30 %, 100 %	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 61000-6-2:2005	Electronic devices	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: 30 %, 60 %, 100 %	BS	N
SANS 61000-6-2:2005	Electronic devices	Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity for industrial environments [Exception] 3 phase	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: 30 %, 60 %, 100 %	BS-1	N
SANS 61000-6-3:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
SANS 61000-6-3:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
SANS 61000-6-4:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
SANS 61000-6-4:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 61326-1:2007	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements Part 1: General requirements	RE: 9 KHz ~ 18 GHz CE: 150 kHz ~ 30 MHz 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: 30 %, 60 %, 100 %	BS	N
SANS 61326-1:2007	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements Part 1: General requirements [Exception] 3 phase	RE: 9 KHz ~ 18 GHz CE: 150 kHz ~ 30 MHz 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: 30 %, 60 %, 100 %	BS-1	N
SANS 61547:2012	Electronic devices	Equipment for general lighting purposes - EMC immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
SANS 61547:2012	Electronic devices	Equipment for general lighting purposes - EMC immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
TCVN 7189:2009	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
TCVN 7189:2009	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
TCVN 7317:2003	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N
TCVN 7317:2003	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
TCVN 7600:2010	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
TCVN 7600:2010	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
VCCI-CISPR 32:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
VCCI-CISPR 32:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
NFA Notice No.2017- 20(12.28.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for an automatic sprinkler system used in kitchen	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS	N
NFA Notice No.2017- 20(12.28.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for an automatic sprinkler system used in kitchen [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
NFA Notice No.2017- 4(12.06.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for a fire detection receiver	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS	N
NFA Notice No.2017- 4(12.06.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for a fire detection receiver [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS-1	N
NFA Notice No.2017- 7(12.06.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for a repeater of fire alarm	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS	N
NFA Notice No.2017- 7(12.06.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for a repeater of fire alarm [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS-1	N
NFA Notice No.2019- 10(01.24.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for fire sensor	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS	N
NFA Notice No.2019- 10(01.24.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for fire sensor [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS-1	N
NFA Notice No.2019- 15(01.31.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for a exit sign	RE: 9 kHz ~ 30 MHz CE: 9 kHz ~ 30 MHz	BS	N
NFA Notice No.2019- 15(01.31.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for a exit sign [Exception] 3 phase	RE: 9 kHz ~ 30 MHz CE: 9 kHz ~ 30 MHz	BS-1	N
NFA Notice No.2019- 45(07.04.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for a gas alarm instrument	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
NFA Notice No.2019- 45(07.04.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for a gas alarm instrument [Exception] 3 phase	ESD: ± 8 kV RS: 80 MHz ~ 1.0 GHz EFT: ± 2 kV SURGE: ± 2 kV CS: 150 kHz ~ 100 MHz	BS-1	N

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03. Electrical Testing

03.013 Energy Efficiency

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AHAM HRF-1:2008	Electrical machinery for households	Energy and internal volume of refrigerating appliances	AC input power 10 kW or less	BS	N
ANSI/ASHRAE Standard 72-2014	Electrical machinery for households	Method of Testing Open and Closed Commercial Refrigerators and Freezers	AC input power 10 kW or less	BS	N
AS/NZS 4474.1:2007/A2:2011	Electrical machinery for households	Performance of household electrical appliances - Refrigerating appliances - Energy consumption and performance Part 1:Energy consumption and performance	AC input power 10 kW or less	BS	N
AS/NZS 4665.1:2005	Electrical machinery for households	Performance of external power supplies Part 1: Test method and energy performance mark	AC and DC input power 600 W or less	BS	N
AS/NZS 62087.1:2010	Electrical machinery for households	Power consumption of audio, video and related equipment - Methods of measurement	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
AS/NZS 62087.2.2:2011	Electrical machinery for households	Power consumption of audio, video and related equipment - Part 2.2: Minimum energy performance standards (MEPS) and energy rating label requirements for television sets	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
AS/NZS IEC 62301:2014	Electrical machinery for households	Household electrical appliances - Measurement of standby power	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
CAN/CSA-C300-08:2008	Electrical machinery for households	Energy Performance and Capacity of Household Refrigerators, Refrigerator-Freezers, Freezers, and Wine Chillers	AC input power 10 kW or less	BS	N
Circular 36/2016/TT-BCT:2016	Electrical machinery for households	Regulations on Energy Efficiency (VNEEP) DoC and Energy Labels	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
Code of Conduct on Energy Efficiency of External Power Supplies Version 5:2013	Electrical machinery for households	External Power Supplies Code of Conduct - Version 5, 29 October 2013	AC and DC input/output power Output 0.3 W to 250 W	BS	N
DOE:EERE-2008-BT-STD-0005:2012	Electrical machinery for households	Energy Conservation Program: Energy Conservation Standards for External Power Supplies; Final Rule	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
Decision No.04/2017/QD-TTg of Vietnam Prime Minister:2017	Electrical machinery for households	Laptop computers PC Monitor (PC Display)	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
EN 50563:2011 /A1:2013	Electrical machinery for households	External a.c.- d.c. and a.c.- a.c. power supplies - Determination of no-load power and average efficiency of active modes [Exception] 3 phase product	AC and DC input/output power 0.3 W ~ 2 400 W	BS	N
EN 50564:2011	Electrical machinery for households	Electrical and electronic house hold and office equipment- Measurement of low power consumption [Exception] 3 phase product	AC and DC input/output power 0.3 W ~ 2 400 W	BS	N
EN 62018:2003	Electrical machinery for households	Power consumption of information technology equipment - Measurement methods	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
EN 62087-1:2016	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 1: General	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
EN 62087-3:2016	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
EN 62087:2012	Electrical machinery for households	Methods of measurement for the power consumption of audio, video and related equipment	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 62623:2013	Electrical machinery for households	Desktop and notebook computers - Measurement of energy consumption	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
ENERGY STAR Program Requirements for Computers	Electrical machinery for households	ENERGY STAR® Program Requirements Product Specification for Computers Eligibility Criteria Version 8.0 Rev. April-2020	AC and DC input power 0.3 W ~ 2 400 W	BS	N
ENERGY STAR® Program Requirements for Displays	Electrical machinery for households	ENERGY STAR® Program Requirements Product Specification for Displays Eligibility Criteria Version 8.0 (Rev. February-2020)	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
ENERGY STAR® Program Requirements for Imaging Equipment	Electrical machinery for households	ENERGY STAR® Product Specification for Imaging Equipment Eligibility Criteria Version 3.1	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
ENERGY STAR® Program Requirements for Residential Refrigerators and Freezers	Electrical machinery for households	ENERGY STAR® Program Requirements Product Specification for Residential Refrigerators and Freezers Eligibility Criteria Version 5.0	AC input power 10 kW or less	BS	N
ENERGY STAR® Program Requirements for Televisions	Electrical machinery for households	ENERGY STAR® Program Requirements for Televisions Eligibility Criteria Version 8.0	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
Greenhouse and Energy Minimum Standards (Television) Determination 2013 (No.2) 1	Electrical machinery for households	Greenhouse and Energy Minimum Standards (Television) Determination 2013 (No.2).	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62018:2003	Electrical machinery for households	Power consumption of information technology equipment - Measurement methods	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62087-1:2015	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 1: General	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62087-3:2015	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62087- BD:2008	Electrical machinery for households	Methods of measurement for the power consumption of audio, video and related equipment	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62087- BD:2011	Electrical machinery for households	Methods of measurement for the power consumption of audio, video and related equipment	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62301:2005	Electrical machinery for households	Household electrical appliances - Measurement of standby power	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62301:2011	Electrical machinery for households	Household electrical appliances - Measurement of standby power	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62552-1:2015	Electrical machinery for households	Household Refrigerating Appliances - Characteristics And Test Methods Part 1 : General Requirements	AC input power 10 kW or less	BS	N
IEC 62552-2:2015	Electrical machinery for households	Household Refrigerating Appliances - Characteristics And Test Methods Part 2 : Performance requirements	AC input power 10 kW or less	BS	N
IEC 62552-3:2015	Electrical machinery for households	Household Refrigerating Appliances - Characteristics And Test Methods Part 3 : Energy consumption and volume	AC input power 10 kW or less	BS	N
IEC 62623:2012	Electrical machinery for households	Desktop and notebook computers - Measurement of energy consumption	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IRAM 2404-1:1997	Electrical machinery for households	Household refrigerating appliances. Determining the power consumption and noise level. Part 1: Methods of measurement of energy consumption and its associated features	AC input power 10 kW or less	BS	N
IRAM 2404-2:2000	Electrical machinery for households	Refrigerators frozen-food storage cabinets and food freezers for household and similar use. Measurement of emission of airborne acoustical noise	AC input power 10 kW or less	BS	N
IRAM 2404-3:1998	Electrical machinery for households	Energy efficiency labelling of household refrigerating appliances. Part 3 - Label	AC input power 10 kW or less	BS	N
KS C IEC 62018:2003	Electrical machinery for households	Power consumption of information technology equipment - Measurement methods	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
KS C IEC 62087:2002	Electrical machinery for households	Methods of measurement for the power consumption of audio, video and related equipment	AC and DC input power (0 ~ 2 200) W	BS	N
KS C IEC 62301:2011	Electrical machinery for households	Household electrical appliances - Measurement of standby power	AC and DC input power 100 W or less	BS	N
KS C IEC 62552:2014	Electrical machinery for households	Household Refrigerating Appliances - Characteristics And Test Methods	AC input power 10 kW or less	BS	N
MS 2576:2014	Electrical machinery for households	MINIMUM ENERGY PERFORMANCE STANDARDS (MEPS) FOR TELEVISION	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
MS IEC 62301:2006	Electrical machinery for households	Household electrical appliance-Measurement of standby power	AC and DC input power 500 W or less	BS	N
MS IEC 62301:2012	Electrical machinery for households	Household electrical appliance-Measurement of standby power	AC and DC input power 500 W or less	BS	N
NCh3107.of2008	Electrical machinery for households	Artefactos electricos de uso domestico-eficiencia energetica en modo enespera - etiquetado.	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
NRCan:Amendme nt 14:2018	Electrical machinery for households	Energy Efficiency Regulations for External Power Supplies, published on October 31, 2018 in the Canada Gazette, Part II	AC and DC output power 250 W or less	BS	N
NTE INEN 2206:2011	Electrical machinery for households	Household refrigerating appliances with or without frosting. Refrigerators with or without low temperature compartment. Inspection Requirements	AC input power 10 kW or less	BS	N
PE N° 8/02/1 (30- 08-2010)	Electrical machinery for households	Protocolo de analisis y/o ensayos de eficiencia energetica de producto electrico - Televisor	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
PE N° 8/2/1-2 (13-12-2013)	Electrical machinery for households	Protocolo de analisis y/o ensayos de eficiencia energetica de producto electrico - Televisor	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
RTE INEN 035:2009	Electrical machinery for households	Energy efficiency in household refrigerating appliances. Energy consumption, test methods and labeling	AC input power 10 kW or less	BS	N
RTE INEN 117:2014	Electrical machinery for households	Eficiencia energetica en televisiones. Reporte de consumo de energia, metodo de ensayo y etiquetado	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
SANS 62087- 1:2017 (Ed. 1.00)	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 1: General	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
SANS 62087- 3:2017 (Ed. 1.00)	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
SANS 62087:2010 (Ed. 1.00)	Electrical machinery for households	Methods of measurement for the power consumption of audio, video and related equipment	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
SANS 62301:2012 (Ed. 2.00)	Electrical machinery for households	Household electrical appliances - Measurement of standby power	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 941:2014 (Ed. 1.01)	Electrical machinery for households	Energy efficiency of electrical and electronic apparatus	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
SASO 2664:2013	Electrical machinery for households	Energy Performance and Capacity of Household Refrigerators, Refrigerators-Freezers, and Freezers	AC input power 10 kW or less	BS	N
TCVN 11847:2017	Electrical machinery for households	Desktop and Notebook Computer - Measurement of energy consumption	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
TCVN 11848:2017	Electrical machinery for households	Notebook Computer - Energy Efficiency	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
TCVN 9508:2012 (IEC 62301:2011)	Electrical machinery for households	Requirements on Energy Efficiency of Computer Monitor	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
TIS 2186- 2547:2004	Electrical machinery for households	THAI INDUSTRIAL STANDARD for HOUSEHOLD REFRIGERATORS: ENVIRONMENT REQUIREMENTS; ENERGY EFFICIENCY	AC input power 10 kW or less	BS	N
MOTIE Notice No.2021- 166(10.25.2021.)	Electrical machinery for households	Ministry of trade, Industry and energy notice No.2020-10 1- 9. LED Guide lights 1-15. LED module for test signs 1- 20. Luminaires 1- 21. LED Lamps	AC 220 V, 60 Hz DC 50 V or less 2 000 W	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2022- 33(15.02.2022.)	Electrical machinery for households	Standby power reduction program management regulation 1- 3. Printer 1- 4. Fax Machines 1- 5. Copiers 1- 6. Scanners 1- 7. Multifunctional Devices 1- 8. Energy-saving & Controlling Devices 1- 10. Home Audio Products 1- 11. DVD player 1- 12. Radio Cassette Players 1- 13. Microwave Ovens 1- 15. Doorphones 1- 16. Cordless/ Corded Phones 1- 17. Bidets 1- 20. Hand Dryers 1- 21. Servers 1- 22. Digital converters 1- 23. Wireless/ Wired Routers	 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 000W or less 100 W or less 150 W or less 2 000 W or less 3 000 W or less - 100 W or less -	BS	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2022- 64(04.27.2022.)	Electrical machinery for households	Regulation for Efficient Management Products 1. Electric refrigerator 3. Kimchi refrigerator 9. Electric cold and hot water dispensers a) Storage tank-type 10. Rice cooker 12. Electric fan 20. Adapter . charger 22. Commercial refrigerator 26. Television set 28. Electric heater 30. Dehumidifier 36. Electric range 37. set-top box 38. Converter internal- type LED lamp 39. Converter external- type LED lamp 42. signage displays 44. Monitors	Adjusted volume : 1 000 L or less Adjusted volume : 1 000 L or less rated power consumption 1 000 W or less 20 person or less wing diameter 20 cm ~ 41 cm Adapter nameplate output power 150 W or less charger of input power 20 W or less Commercial (business) refrigerator and refrigerator-freezer : Adjusted volume 300 L ~ 2 000 L display cabinets : Adjusted volume 300L ~ 1 500L diagonal screen length between not less than (47 ~ 216) cm rated power consumption 500 W ~ 10 kW rated power consumption 1 000 W or less rated power consumption 1 kW ~ 10 kW rated power consumption 150 W or less 150 W or less 30 W or less diagonal screen length between not less than (30.48 ~ 154.94) cm diagonal screen length between not less than (153 cm less)	BS	N

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03. Electrical Testing

03.014 Environmental and Reliability

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
BS EN 60945:2002	Electrical materials and components	Maritime navigation and radiocommunication equipment and systems. General requirement - Methods of testing and required test results [Applicable item] 7.1 Extreme power supply 8.1 General 8.2 Dry heat 8.3 Damp heat 8.4 Low temperature 8.5 Thermal shock 8.6.1 Drop on hard 8.7 Vibration 8.12 Corrosion	8.2 Temperature: 55 °C 8.3 Temperature: 40 °C Humidity: 93 % R.H. 8.4 Temperature: -30 °C 8.6.1 (0 ~ 1 000) mm 8.7 Frequency (2 ~ 13.2) Hz Acceleration: 7 m/s ² 8.8 IPX7 8.12 Temperature : (23 ~ 60) °C Humidity: (30 ~ 95) % spray : (1.0 ~ 2.0) mL/h, NaCl: 5% Ph : (6.5 ~ 7.2)	BS-2	N
BS EN 60945:2002	Electrical materials and components	Maritime navigation and radiocommunication equipment and systems. General requirement - Methods of testing and required test results [Applicable item] 8.7 Vibration	Displacement ±1 mm Frequency (2 ~ 13.2) Hz Acceleration 7 m/s ²	SF-2	N
EN 60529:1991 +A1:1992+A2:201 3	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP66	SF-2	N
EN 60529:1991+A1:1 992+A2:2013	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP68	SF-1	N
IEC 60068-2- 11:2021	Electrical materials and components	Environmental testing - Part 2-11: Tests - Test Ka: Salt mist	Temperature 35 °C, spray (1.0 ~ 2.0) mL/h, NaCl : 5 % pH (6.5 ~ 7.2)	BS-2	N
IEC 60068-2- 11:2021	Electrical materials and components	Environmental testing - Part 2-11: Tests - Test Ka: Salt mist	Temperature 35 °C spray (1.0 ~ 2.0) mL/h NaCl : 5 % pH (6.5 ~ 7.2)	SF-1	N
IEC 60068-2- 14:2009	Electrical materials and components	Environmental testing - Part 2-14: Tests - Test N: Change of temperature [Exception] 9 Test Nc : Rapid change of temperature, two- fluid-bath method	low temperature : (-60 ~ -5) °C, high temperature : (30 ~ 150) °C	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60068-2-1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold	Temperature : (-65 ~ 5) °C	SF-1	N
IEC 60068-2-1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold [Exception] 5.3 Test Ad 5.4 Test Ae	Temperature:(-65 ~ 5) °C	SF-2	N
IEC 60068-2-1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold [Exception] 5.3 Test Ad 5.4 Test Ae	Temperature: (-65 ~ 5) °C	BS-2	N
IEC 60068-2-27:2008	Electrical materials and components	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	Acceleration: (50 ~ 500) m/s ² Shock duration: (2.0 ~ 30.0) ms	SF-2	N
IEC 60068-2-27:2008	Electrical materials and components	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	Acceleration: (50 ~ 1 500) m/s ² Shock duration: (2.0 ~ 30.0) ms	BS-2	N
IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat	Temperature : (10 ~ 90) °C	SF-1	N
IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat [Exception] 5.3 Test Bd 5.4 Test Be	Temperature : (10 ~ 90) °C	BS-2	N
IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat [Exception] 5.3 Test Bd 5.4 Test Be	Temperature: (30 ~ 100) °C	SF-2	N
IEC 60068-2-30:2005	Electrical materials and components	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	Temperature : (23 ~ 55) °C, Humidity :(45 ~ 95) % R.H	BS-2	N
IEC 60068-2-31:2008	Electrical materials and components	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	heights : (25 ~ 1 500) mm, mass : (1 ~ 50) kg	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60068-2-38:2021	Electrical materials and components	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	Temperature : (23 ~ 65) °C Humidity : (45 ~ 95) % R.H	BS-2	N
IEC 60068-2-52:2017	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (23 ~ 40) °C, Humidity: (45 ~ 95) % R.H, spray: (1.0 ~ 2.0) mL/h, NaCl 5 %, pH: (6.5 ~ 7.2)	BS-2	N
IEC 60068-2-52:2017	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (23 ~ 40) °C, Humidity: (45 ~ 95) % R.H, spray: (1.0 ~ 2.0) mL/h, NaCl 5 %, pH: (6.5 ~ 7.2)	SF-1	N
IEC 60068-2-57:2013	Electrical materials and components	Environmental testing - Part 2-57: Tests - Test Ff: Vibration - Time-history and sine-beat method	Frequency: (5 ~ 2 000) Hz, Acceleration: (0.98 ~ 200) m/s ²	SF-2	N
IEC 60068-2-57:2013	Electrical materials and components	Environmental testing - Part 2-57: Tests - Test Ff: Vibration - Time-history and sine-beat method	Frequency: (5 ~ 2 000) Hz, Acceleration: (0.98 ~ 200) m/s ²	BS-2	N
IEC 60068-2-61:1991	Electrical materials and components	Environmental testing - Part 2-61: Test methods - Test Z/ABDM: Climatic sequence [Exception] 8.2.4 Low air pressur	Temperature: (-55 ~ 100) °C Humidity: (45 ~ 95) % R.H	BS-2	N
IEC 60068-2-64:2008	Electrical materials and components	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	Frequency: (5 ~ 2 000) Hz ASD range (sample weight: under 500 kg) (0.0013 ~ 55.5) (m/s ²) ² /Hz	SF-2	N
IEC 60068-2-64:2008	Electrical materials and components	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	Frequency: (5 ~ 2 000) Hz ASD range (sample weight: under 500 kg) (0.0013 ~ 55.5) (m/s ²) ² /Hz	BS-2	N
IEC 60068-2-66:1994	Electrical materials and components	Environmental testing - Part 2- Test methods - Test Cx: Damp heat, steady state (unsaturated pressurized vapour)	Temperature: (110 ~ 130) °C, Humidity: 85 % R.H	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60068-2-67:1995	Electrical materials and components	Environmental testing - Part 2-67: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components	Temperature: 85 , °C Humidity: 85 % R.H	BS-2	N
IEC 60068-2-6:2007	Electrical materials and components	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	Frequency: (5 ~ 2 000) Hz Acceleration: (20 ~ 200) m/s ² Amplitude: (0.15 ~ 1.5) mm	SF-2	N
IEC 60068-2-6:2007	Electrical materials and components	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	Frequency: (5 ~ 2 000) Hz Acceleration: (20 ~ 200) m/s ² Amplitude: (0.15 ~ 1.5) mm	BS-2	N
IEC 60068-2-75:2014	Electrical materials and components	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	Energy : (0.14 ~ 50) J	BS-2	N
IEC 60068-2-78:2012	Electrical materials and components	Environmental testing-Part 2-78 : Tests-Test Cab : Damp heat, steady state	Humidity : (85 ~ 93) % R.H	BS-2	N
IEC 60529:1989 +A1:1999+A2:2013	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP68	SF-1	N
IEC 60529:1989 +A1:1999+A2:2013	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP66	SF-2	N
IEC 60945:2002	Electrical materials and components	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results [Applicable item] 8.2 Dry heat 8.3 Damp heat 8.4 Low temperature 8.6.1 Drop on hard surface 8.7 Vibration 8.8 Rain and Sprat(exposed equipment) 8.12 Corrosion(Salt spray)(All kinds of equipment)	8.2 Temperature: 55 °C 8.3 Temperature: 40 °C Humidity: 93 % R.H. 8.4 Temperature: -30 °C 8.6.1 (0 ~ 1 000) mm 8.7 Frequency: (2 ~ 13.2) Hz Acceleration: 7 m/s ² 8.8 IPX7 8.12 Temperature : (23 ~ 60) °C Humidity: (30 ~ 95) % spray : (1.0 ~ 2.0) mL/h, NaCl: 5 % pH : (6.5 ~ 7.2)	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60945:2002	Electrical materials and components	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results [Applicable item] 8.7 Vibration	Displacement ± 1 mm Frequency (2~13.2) Hz Acceleration 7 m/s^2	SF-2	N
IEC 61373:2010	Electrical materials and components	Railway applications - Rolling stock equipment - Shock and vibration tests	Vibration 1) Frequency: (5 ~ 200) Hz 2) Acceleration: (0.37 ~ 144) m/s^2 Shock 1) Acceleration: (30 ~ 300) m/s^2 2) Shock duration: (18 ~ 30) ms	SF-2	N
IEC 61373:2010	Electrical materials and components	Railway applications - Rolling stock equipment - Shock and vibration tests	Vibration 1) Frequency: (5 ~ 200) Hz 2) Acceleration: (0.37 ~ 144) m/s^2 Shock 1) Acceleration: (30 ~ 1 000) m/s^2 2) Shock duration: (6 ~ 30) ms	BS-2	N
IEC 62262:2002+AMD 1:2021	Electrical materials and components	Degrees of protection provided by enclosures for electrical equipment a gainst external mechanical impacts(IK code)	Energy level: (0.14 ~ 20) J	BS-2	N
ISO 10055:1996	Electrical materials and components	Mechanical vibration- Vibration testing requirements for shipboard equipment and machinery components	Frequency (2 ~ 100) Hz Displacement (1 ~ 2.5) mm Acceleration (7 ~ 40) m/s^2	BS-2	N
ISO 10055:1996	Electrical materials and components	Mechanical vibration- Vibration testing requirements for shipboard equipment and machinery components	Frequency (2 ~ 100) Hz Displacement (1 ~ 2.5) mm Acceleration (7 ~ 40) m/s^2	SF-2	N
KC 60529:2014	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP66	SF-2	N
KC 60529:2015	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP68	SF-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS B ISO 10055:1996	Electrical materials and components	Mechanical vibration - Vibration testing requirements for shipboard equipment and machinery components	Frequency (2 ~ 100) Hz Displacement (1 ~ 2.5) mm Acceleration (7 ~ 40) m/s ²	BS-2	N
KS B ISO 10055:1996	Electrical materials and components	Mechanical vibration - Vibration testing requirements for shipboard equipment and machinery components	Frequency (2 ~ 100) Hz Displacement (1 ~ 2.5) mm Acceleration (7 ~ 40) m/s ²	SF-2	N
KS C IEC 60068-2- 11:1981	Electrical materials and components	Basic environmental testing procedures - Part 2-11: Tests - Test Ka: Salt mist	Temperature: 35 °C, NaCl: 5 %, pH: (6.5 ~ 7.2)	SF-1	N
KS C IEC 60068-2- 11:1981	Electrical materials and components	Basic environmental testing procedures - Part 2-11: Tests - Test Ka: Salt mist	Temperature: 35 °C, NaCl: 5 %, pH: (6.5 ~ 7.2)	BS-2	N
KS C IEC 60068-2- 14:2009	Electrical materials and components	Environmental testing - Part 2-14: Tests - Test N: Change of temperature [Exception] 9 Sudden change of test Nc temperature	low temperature: (-60 ~ -5) °C, high temperature: (30 ~ 150) °C	BS-2	N
KS C IEC 60068-2- 1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold	Temperature: (-65 ~ 5) °C	SF-1	N
KS C IEC 60068-2- 1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold [Exception] 5.3 시험 Ad 5.4 시험 Ae	Temperature: (-65 ~ 5) °C	BS-2	N
KS C IEC 60068-2- 1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold [Exception] 5.3 시험 Ad 5.4 시험 Ae	Temperature: (-65 ~ 5) °C	SF-2	N
KS C IEC 60068-2- 27:2008	Electrical materials and components	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	Acceleration: (50 ~ 1 500) m/s ² Shock duration: (2.0 ~ 30.0) ms	BS-2	N
KS C IEC 60068-2- 27:2008	Electrical materials and components	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	Temperature: (30 ~100) °C	SF-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat	Temperature: (30 ~ 100) °C	SF-1	N
KS C IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat [Exception] 5.3 시험 Bd 5.4 시험 Be	Temperature: (30 ~ 100) °C	BS-2	N
KS C IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat [Exception] 5.3 시험 Bd 5.4 시험 Be	Temperature: (30 ~ 100) °C	SF-2	N
KS C IEC 60068-2-30:2005	Electrical materials and components	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	Acceleration: (50 ~ 500) m/s ² Shock duration: (2 ~ 30) ms	BS-2	N
KS C IEC 60068-2-30:2014	Electrical materials and components	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	Acceleration: (50 ~ 500) m/s ² Shock duration: (2 ~ 30) ms	BS-2	N
KS C IEC 60068-2-31:2008	Electrical materials and components	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	Temperature: (23 ~ 55) °C, Humidity: (45 ~ 95) % R.H	BS-2	N
KS C IEC 60068-2-38:2008	Electrical materials and components	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	heights: (25 ~ 1 500) mm, mass: (1 ~ 50) kg	BS-2	N
KS C IEC 60068-2-38:2021	Electrical materials and components	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	heights: (25 ~ 1 500) mm, mass: (1 ~ 50) kg	BS-2	N
KS C IEC 60068-2-52:2010	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (23 ~ 40) °C, Humidity: (45 ~ 95) % R.H, spray : (1.0 ~ 2.0) mL/h, NaCl: 5 %, pH: (6.5 ~ 7.2)	SF-1	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60068-2-52:2010	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (-10 ~ 65) °C, Humidity: (45 ~ 95) % R.H	BS-2	N
KS C IEC 60068-2-52:2017	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (23 ~ 40) °C, Humidity: (45 ~ 95) % R.H, spray : (1.0 ~ 2.0) mL/h, NaCl: 5 %, pH: (6.5 ~ 7.2)	SF-1	N
KS C IEC 60068-2-52:2017	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (-10 ~ 65) °C, Humidity: (45 ~ 95) % R.H	BS-2	N
KS C IEC 60068-2-57:2013	Electrical materials and components	Environmental testing - Part 2-57: Tests - Test Ff: Vibration - Time-history and sine-beat method	Frequency: (5 ~ 2 000) Hz, Acceleration: (0.98 ~ 200) m/s ²	SF-2	N
KS C IEC 60068-2-57:2013	Electrical materials and components	Environmental testing - Part 2-57: Tests - Test Ff: Vibration - Time-history and sine-beat method	Frequency: (5 ~ 2 000) Hz, Acceleration: (0.98 ~ 200) m/s ²	BS-2	N
KS C IEC 60068-2-61:1991	Electrical materials and components	Environmental testing — Part 2-61: Test methods — Test Z/ABDM: Climatic sequence [Exception] 8.2.4 Low air pressur	Temperature: (-55 ~ 100) °C Humidity: (45 ~ 95) % R.H	BS-2	N
KS C IEC 60068-2-64:2008	Electrical materials and components	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	Frequency: (5 ~ 2 000) Hz ASD range (sample weight: under 500 kg) (0.0013 ~ 55.5) (m/s ²) ² /Hz	BS-2	N
KS C IEC 60068-2-64:2008	Electrical materials and components	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	Frequency: (5 ~ 2 000) Hz ASD range (Sample weight: under 500 kg) (0.0013 ~ 55.5) (m/s ²) ² /Hz	SF-2	N
KS C IEC 60068-2-66:1994	Electrical materials and components	Environmental testing — Part 2-66: Tests methods — Test Cx: Damp heat, steady state(unsaturated pressurized vapour)	Temperature: (110 ~ 130) °C, Humidity: 85 % R.H	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60068-2-67:1995	Electrical materials and components	Environmental testing - Part 2-67: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components	Temperature: 85 °C, Humidity: 85 % R.H	BS-2	N
KS C IEC 60068-2-6:2015	Electrical materials and components	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	Frequency: (5 ~ 2 000) Hz Acceleration: (20 ~ 200) m/s ² Amplitude: (0.15 ~ 1.5) mm	BS-2	N
KS C IEC 60068-2-6:2015	Electrical materials and components	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	Frequency: (5 ~ 2 000) Hz Acceleration: (20 ~ 200) m/s ² Amplitude: (0.15 ~ 1.5) mm	SF-2	N
KS C IEC 60068-2-75:2014	Electrical materials and components	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	Energy : (0.14 ~ 50) J	BS-2	N
KS C IEC 60068-2-78:2012	Electrical materials and components	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	Temperature : (30 ~ 40) °C Humidity : (85 ~ 93) % R.H	BS-2	N
KS C IEC 60529:2006	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP66	SF-2	N
KS C IEC 60529:2013	Electrical materials and components	Degrees of protection provided by enclosures(IP code) [Exception] 14.2.9 Test for second characteristic numeral 9 with a spray nozzle	IP00 - IP66	SF-2	N
KS C IEC 60529:2013	Electrical materials and components	Degrees of protection provided by enclosures (IP Code) [Exception] 14.2.9 Test for second characteristic numeral 9 with a spray nozzle	IP00 - IP68	SF-1	N
KS C IEC 61373:2010	Electrical materials and components	Railway applications - Rolling stock equipment - Shock and vibration tests	Vibration 1) Frequency: (5 ~ 200) Hz 2) Acceleration: (0.37 ~ 144) m/s ² Shock 1) Acceleration: (30 ~ 300) m/s ² 2) Shock duration: (18 ~ 30) ms	SF-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 61373:2010	Electrical materials and components	Railway applications - Rolling stock equipment - Shock and vibration tests	Vibration 1) Frequency: (5 ~ 200) Hz 2) Acceleration: (0.37 ~ 144) m/s ² Shock 1) Acceleration: (30 ~ 1 000) m/s ² 2) Shock duration: (6 ~ 30) ms	BS-2	N
KS C IEC 62262:2002	Electrical materials and components	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	Energy level: (0.14 ~ 20) J	BS-2	N
KS R 9144:2021	Electrical materials and components	Test methods for vibration of parts of railway rolling stock	Frequency: (1 ~ 70) Hz Acceleration: (4.90 ~ 490) m/s ²	SF-2	N
KS R 9144:2021	Electrical materials and components	Test methods for vibration of parts of railway rolling stock	Frequency: (1 ~ 70) Hz Acceleration: (4.90 ~ 490) m/s ²	BS-2	N
KS R 9186:2021	Electrical materials and components	Parts for railway signal - Vibration test methods	Frequency: (10 ~ 1 000) Hz Acceleration: (4.90 ~ 147) m/s ²	SF-2	N
KS R 9186:2021	Electrical materials and components	Parts for railway signal - Vibration test methods	Frequency: (10 ~ 1 000) Hz Acceleration: (4.90 ~ 147) m/s ²	BS-2	N
KS R 9191:1996	Electrical materials and components	HIGH AND LOW TEMPERATURE TESTING METHODS FOR PARTS OF RAILWAY SIGNALING	Temperature : (-30 ~ 60) °C	BS-2	N
KS R 9192:1996	Electrical materials and components	CHANGE OF TEMPERATURE TESTING METHOD FOR PARTS OF RAILWAY SIGNALING	Temperature : (-30 ~ 60) °C	BS-2	N
KS X IEC 60945:2002	Electrical materials and components	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results [Applicable item] 8.7 Vibration 8.8 Rain and Sprat(exposed equipment)	Displacement (1 mm Frequency (2 ~ 13.2) Hz Acceleration 7m/s ²	SF-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X IEC 60945:2002	Electrical materials and components	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results [Applicable item] 8.2 Dry heat 8.3 Damp heat 8.4 Low temperature 8.5 thermal shock(portable device) 8.6.1 Drop on hard surface 8.7 Vibration 8.8 Rain and Sprat(exposed equipment) 8.12 Corrosion(Salt spray)(All kinds of equipment)	8.2 Temperature: 55 °C 8.3 Temperature: 40 °C Humidity: 93 % R.H. 8.4 Temperature: -30 °C 8.6.1 (0 ~ 1 000) mm 8.7 Frequency: (2 ~ 13.2) Hz Acceleration: 7 m/s ² 8.8 IPX7 8.12 Temperature : (23 ~ 60) °C Humidity: (30 ~ 95) % spray : (1.0 ~ 2.0) mL/h, NaCl: 5 % pH : (6.5 ~ 7.2)	BS-2	N
MIL-STD-167- 1A:2005	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I - ENVIRONMENTAL AND TYPE II - INTERNALLY EXCITED)	Frequency: (16 ~ 33) Hz Acceleration: (0.98 ~ 980) m/s ² Amplitude: (0.254 ~ 0.508) mm	SF-2	N
MIL-STD-167- 1A:2005	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I - ENVIRONMENTAL AND TYPE II - INTERNALLY EXCITED) [Exception] TYPE II - INTERNALLY EXCITED	Frequency: (16 ~ 33) Hz Acceleration: (0.98 ~ 980) m/s ² Amplitude: (0.254 ~ 0.508) mm	BS-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
MIL-STD-810F:2000	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD FOR ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.4 High temperature 502.4 Low temperature 503.4 Temperature shock 507.4 Humidity 509.4 Salt Fog 514.5 Vibration 516.5 Shock	501.4 : Max. 150 °C 502.4 : Min. -50 °C 507.4 : (20 ~ 95) % R.H. 514.5 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.5 : Acceleration : (98 ~ 500) m/s ² Duration : (1 ~ 30) ms	SF-2	N
MIL-STD-810F:2000	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD FOR ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.4 High temperature 502.4 Low temperature 503.4 Temperature shock 507.4 Humidity 509.4 Salt Fog 514.5 Vibration 516.5 Shock	501.4 : Max. 180 °C 502.4 : Min. -60 °C 503.4 : Temperature (-60 ~ 180) °C 507.4 : (20 ~ 95) % R.H. 509.4 : Salt Fog Temperature: (25 ~ 50) °C Salt Fog Humidity: (20 ~ 95) % R.H. NaCl: (5 ± 1)% Ph: (6.5 ~ 7.2) 514.5 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.5 : Acceleration : (98 ~ 980) m/s ² Duration : (1 ~ 30) ms	BS-2	N
MIL-STD-810G:2008	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.5 High temperature 502.5 Low temperature 503.5 Temperature shock 507.5 Humidity 509.5 Salt Fog 514.6 Vibration 516.6 Shock	501.5 : Max. 150 °C 502.5 : Min. -50 °C 507.5 : (20 ~ 95) % R.H. 514.6 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.6 : Acceleration : (98 ~ 500) m/s ² Duration : (1 ~ 30) ms	SF-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
MIL-STD-810G:2008	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.5 High temperature 502.5 Low temperature 503.5 Temperature shock 507.5 Humidity 509.5 Salt Fog 514.6 Vibration 516.6 Shock	501.5 : Max. 180 °C 502.5 : Min. -60 °C 503.5 : Temperature (-60 ~ 180) °C 507.5 : (20 ~ 95) % R.H. 509.5 : Salt Fog Temperature: (25 ~ 50) °C Salt Fog Humidity: (20 ~ 95) % R.H. NaCl: (5 ± 1)% Ph: (6.5 ~ 7.2) 514.6 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.6 : Acceleration : (98 ~ 980) m/s ² Duration : (1 ~ 30) ms	BS-2	N
MIL-STD-810G:2014	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.6 High temperature 502.6 Low temperature 503.6 Temperature shock 507.6 Humidity 509.6 Salt Fog 514.7 Vibration 516.7 Shock	501.6 : Max. 150 °C 502.6 : Min. -50 °C 507.6 : (20 ~ 95) % R.H. 514.7 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.7 : Acceleration : (98 ~ 500) m/s ² Duration : (1 ~ 30) ms	SF-2	N
MIL-STD-810G:2014	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.6 High temperature 502.6 Low temperature 503.6 Temperature shock 507.6 Humidity 509.6 Salt Fog 514.7 Vibration 516.7 Shock	501.6 : Max. 180 °C 502.6 : Min. -60 °C 503.6 : Temperature (-60 ~ 180) °C 507.6 : (20 ~ 95) % R.H. 509.6 : Salt Fog Temperature: (25 ~ 50) °C Salt Fog Humidity: (20 ~ 95) % R.H. NaCl: (5 ± 1)% Ph: (6.5 ~ 7.2) 514.7 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.7 : Acceleration : (98 ~ 980) m/s ² Duration : (1 ~ 30) ms	BS-2	N

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Test method	Materials/Products	Standard designation	Test range	Site	Field testing
MIL-STD-810H:2019	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.7 High temperature 502.7 Low temperature 503.7 Temperature shock 507.6 Humidity 509.7 Salt Fog 514.8 Vibration 516.8 Shock	501.7 : Max. 180 °C 502.7 : Min. -60 °C 503.7 : Temperature (-60 ~ 180) °C 507.6 : (20 ~ 95) % R.H. 509.7 : Salt Fog Temperature: (25 ~ 50) °C Salt Fog Humidity: (20 ~ 95) % R.H. NaCl: (5 ± 1)% Ph: (6.5 ~ 7.2) 514.8 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.8 : Acceleration : (98 ~ 980) m/s ² Duration : (1 ~ 30) ms	BS-2	N
MIL-STD-810H:2019	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.7 High temperature 502.7 Low temperature 503.7 Temperature shock 507.6 Humidity 509.7 Salt Fog 514.8 Vibration 516.8 Shock	501.7 : Max. 150 °C 502.7 : Min. -50 °C 507.6 : (20 ~ 95) % R.H. 514.8 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.8 : Acceleration : (98 ~ 500) m/s ² Duration : (1 ~ 30) ms	SF-2	N
RTCA/DO-160G:2010	Electrical materials and components	Environment Condition and Test Procedure for Airbone Equipment [Applicable item] Section 4: Temperature and Altitude Section 7: Operational Shocks and Crash Safety Section 8: Vibration [Exception] 4.6 Altitude, Decompression and Overpressure Tests	Section 4 : Temperature: (-50 ~ 150) °C Humidity: (20 ~ 95) % R.H. Section 7 : Acceleration: (98 ~ 1 500) m/s ² Duration (1 ~ 30) ms Section 8 : Frequency (4 ~ 2 000) Hz Acceleration (1 ~ 980) m/s ²	SF-2	N

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Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
RTCA/DO-160G:2010	Electrical materials and components	Environment Condition and Test Procedure for Airbone Equipment [Applicable item] Section 7: Operational Shocks and Crash Safety Section 8: Vibration Section 14: Salt Spray	Section 4 : Temperature: (-60 ~ 180) °C Humidity: (20 ~ 95) % R.H. Section 7 : Acceleration: (98 ~ 1 500) m/s ² Duration (1 ~ 30) ms Section 8 : Frequency (4 ~ 2 000) Hz Acceleration (1 ~ 980) m/s ² Section 14: Salt Spray Temperature: (25 ~ 50) °C Salt Spray Humidity: (20 ~ 95) % R.H. NaCl: (5 ± 1) % Ph: (6.5 ~ 7.2)	BS-2	N

End.