



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Test'ing S.r.l.

Via del Consorzio 41 - Falconara Marittima , 60015

(Hereinafter called the Organization) and hereby declares that Organization 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 (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Electromagnetic, Electrical, Mechanical and Environmental Testing
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:

November 13,2020

Issue Date:

January 24, 2023

Expiration Date:

February 28, 2025

Accreditation No.:

111347

Certificate No.:

L23-59

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjilabs.com



Certificate of Accreditation: Supplement

Test'ing S.r.l

Via del Consorzio 41 - Falconara Marittima, 60015 Italy
 Contact Name: Massimo Ambrosi Phone: 071-915-6048

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Electromagnetic compatibility tests ^F	Electrical lighting and similar equipment	Immunity tests to radiofrequency electromagnetic field; magnetic fields at mains frequency; injected currents; bursts, surge, dips, ESD	IEC 61547:1995 / A1:2000, IEC 61547:2009, IEC 61547:2020 EN 61547:1995 / A1:2000, EN 61547:2009	Electromagnetic fields up to 3 V/m from 80 MHz to 2700 MHz Magnetic field with level 3 A/m Burst and fast transient up to 4 KV Surge up to 4 KV ESD up to 15 KV RF currents from 150 kHz to 80 MHz with level 3V Immunity to dips and voltage variations from 10 ms to 5 s
	Household appliances, electric tools and similar apparatus	Immunity tests to radiated em fields, conducted RF currents, burst, surge, ESD and dips	CISPR 14-2:1997 / A1:2001 / A2:2008; CISPR 14-2:2015; CISPR 14-2:2020 EN 55014-2:1997 + EC:1997 / A1:2001 + IS1:2007 / A2:2008; EN 55014-2:2015 EN IEC 55014-2:2021	Electromagnetic fields up to 3 V/m from 80 MHz to 1 000 MHz RF currents from 150 kHz to 230 MHz with level up to 3V Burst and fast transient up to 4 KV Surge up to 4 KV ESD up to 15 KV Immunity to dips and voltage variations from 10 ms to 5 s
		Conducted emission tests Power disturbance test Radiated emission test	EN 55014-1:2017 EN IEC 55014-1:2021 CISPR 1-14:2016/ COR1:2016 CISPR 14-1:2020	Conducted emissions in the frequency range 150kHz to 30M Hz Power disturbance test 30 MHz to 300 MHz Radiated emission test 30 MHz to 1 000 MHz
	Electrical equipment for measurement, control and laboratory use	Immunity to electromagnetic radiated fields, injected RF currents, magnetic fields at mains frequency, burst, surge, ESD and dips Conducted emission tests, Radiated emission test	IEC 61326-1:2005, IEC 61326-1:2012, EN 61326-1:2006, EN 61326-1:2013	Electromagnetic fields up to 10V/m from 80 MHz to 2 700 MHz RF currents from 150kHz to 80MHz with level up to 10V Magnetic field a with level up to 30 A/m Burst and fast transient up to 4 KV Surge up to 4 KV ESD up to 15 KV Conducted emissions in the frequency range 150kHz to 30 MHz Radiated emission test 30 MHz to 1 GHz Immunity to dips and voltage variations from 10ms to 5s



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Electromagnetic compatibility tests ^F	Medical electrical equipment	Identification, marking and documents (5); Measurements of harmonic and flicker emissions and immunity tests to electromagnetic radiated fields, injected RF currents, magnetic fields at mains frequency, burst, surge, ESD and dips Conducted emission tests, Radiated emission test	IEC 60601-1-2:2001 / A1:2004, IEC 60601-1-2:2007, IEC 60601-1-2:2014/ A1:2020 EN 60601-1-2:2001 / A1:2006, EN 60601-1-2:2007, EN 60601-1-2:2015/A1:2021	Electromagnetic fields up to 28 V/m from 80 up to 6 000 MHz – RF currents from 150 kHz to 80 MHz with level up to 10 V Magnetic field with level up to 30 A/m Burst and fast transient up to 4 KV Surge up to 4 KV ESD up to 15 KV Conducted emissions in the frequency range 150 kHz to 30 MHz Immunity to dips and voltage variations from 10 ms to 5 s Radiated emission test 30 MHz to 1 GHz Proximity magnetic field up to 65 A/m
	Multimedia equipment	Immunity tests to continuous RF disturbances; Power frequency magnetic fields; broadband impulsive conducted disturbances; Immunity to burst, surge, ESD and dips	EN 55032:2015/AC:2016 /A1:2020/A11:2020 CISPR 32:2015/AMD1:2019	Electromagnetic fields from 80 up to 3 000 MHz field up to 3 V/m RF currents from 150 kHz to 80 MHz with level up to 3 V Magnetic field with level up to 3A/m Burst and fast transient up to 4 KV Surge up to 4 KV ESD up to 8 KV Immunity to dips and voltage variations from 10 ms to 5s
	Electromedical equipment, industrial equipment, information technology, lighting equipment, household appliances	Immunity to the electromagnetic field radiated with radiofrequency	EN 61000-4-3:2006/A1:2009/A2:2010 IEC 61000-4-3:2006/A1:2007/A2:2010	Electromagnetic fields 10V/m from 80 MHz to 3 GHz



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Electromagnetic compatibility tests ^F	Electromedical equipment, industrial equipment, information technology, lighting equipment, household appliances	Immunity to RF current	EN 61000-4-6:2014/AC:2015 IEC 61000-4-6:2013	RF currents from 150 kHz to 80MHz Voltage level up to 30 V
		Immunity to ESD	EN 61000-4-2: 2009/ IEC 61000-4-2:2008	Electrostatic air discharge test up to 15kV and electrostatic contact discharge up to ± 8 kV
		Immunity to Burst/fast transient	IEC 61000-4-4:2012, EN 61000-4-4:2012	Immunity to burst/fast transients up to 4 kV, with frequency repetition 5 or 100 KHz
		Immunity to Surge	IEC 61000-4-5:2014/A1:2017, EN 61000-4-5:2014/A1:2017	Immunity to surge up to 4kV
		Immunity to dips and voltage variations	IEC61000-4-11:2004/A1:2017 IEC 61000-4-11:2020 EN 61000-4-11:2004 / A1:2007 EN 61000-4-11:2020	Immunity to 0%; 40%; 70%; 80% voltage dips and variation
		Harmonic current emissions	EN 61000-3-2:2019 IEC 61000-3-2:2018/A1:2020	Max current 16 A
		Flicker measurement (parameters pst, plt, dt, dc, dmax)	EN 61000-3-3:2013/A1:2019/ A2:2021/AC:2022 IEC 61000-3-3:2013/A1:2017/ A2:2021/COR1:2022	Max current 16A
		Immunity to magnetic fields	EN 61000-4-8:2010 IEC 61000-4-8:2009	Up to 100 A/m
	Electric and electronic equipment for residential, commercial and light-industrial environments	Conducted emission tests Harmonics Flicker	IEC 61000-6-3:2006/A1:2010 IEC 61000-6-3:2020 EN 61000-6-3:2007/A1:2011+A1:2011/EC:2012 EN 61000-6-3:2021	Conducted emissions in the frequency range 150 kHz to 30 MHz Harmonics on power line Flicker on power line
			IEC 61000-6-4:2009, IEC 61000-6-4:2018 EN 61000-6-4:2007/A1:2011; EN 61000-6-4:2019	Conducted emissions in the frequency range 150kHz to 30 MHz Harmonics on power line Flicker on power line
Electric and electronic equipment for industrial environments				



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Electrical and Mechanical ^F	Medical electrical equipment - General requirements for basic safety and essential performance	§ 4 - General requirements; §5 - General requirements for testing ME EQUIPMENT §6 - Classification of ME EQUIPMENT and ME SYSTEMS; §7 - ME EQUIPMENT identification, marking and documents; §8 Protection against electrical HAZARDS from ME EQUIPMENT § 9 - Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS; §10 - Protection against unwanted and excessive radiation HAZARDS; §11 Protection against excessive temperatures and other HAZARDS; §12 - Accuracy of controls and instruments and protection against hazardous outputs; §13HAZARDOUS SITUATIONS and fault conditions; §14- PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) ; §15 - Construction of ME EQUIPMENT; §16 -ME SYSTEMS; §17 - Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	EN 60601-1:2006/AC:2010/A1:2013/A12:2014/A2:2021 IEC 60601-1:2005/AMD1:2012/AMD2:2020	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C



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Electrical and Mechanical ^F	Medical electrical equipment Part 2: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment	201.4 General requirements 201.5 General requirements for testing ME EQUIPMENT; 201.6 Classification of ME EQUIPMENT and ME SYSTEMS; 201.7 ME EQUIPMENT identification, marking and documents ; 201.8 Protection against electrical HAZARDS from ME EQUIPMENT; 201.9 Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS; 201.10 Protection against unwanted and excessive radiation HAZARDS; 201.11 Protection against excessive temperatures and other HAZARDS; 201.12 Accuracy of controls and instruments and protection against hazardous outputs; 201.13 HAZARDOUS SITUATIONS and fault conditions; 201.14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS); 201.15 Construction of ME EQUIPMENT; 201.16 ME SYSTEMS; 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	IEC/60601-2-22:2007/A1:2012 IEC 60601-2-22:2019 EN 60601-2-22:2013 EN IEC 60601-2-22:2020	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C Fault condition up to 63 A Force up to 200 N Laser power measurements up to 30 W



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Electrical and Mechanical ^F	Medical electrical Medical electrical equipment - Part 2-57: Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use	201.4 General requirements 201.5 General requirements for testing ME EQUIPMENT; 201.6 Classification of ME EQUIPMENT and ME SYSTEMS; 201.7 ME EQUIPMENT identification, marking and documents; 201.8 Protection against electrical HAZARDS from ME EQUIPMENT; 201.9 Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS; 201.10 Protection against unwanted and excessive radiation HAZARDS; 201.11 Protection against excessive temperatures and other HAZARDS; 201.12 Accuracy of controls and instruments and protection against hazardous outputs; 201.13 HAZARDOUS SITUATIONS and fault conditions; 201.14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS); 201.15 Construction of ME EQUIPMENT; 201.16 ME SYSTEMS; 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	CEI EN 60601-2-57:2012, EN 60601-2-57:2011, IEC 60601-2-57:2011	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 150 °C Fault condition up to 63 A



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motor-operated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14 - Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 - Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws and connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	EN 60335-1:2012/AC:2014/A11:2014/A13:2017/A1: 2019/A2:2019/A14:2019 CEI EN 60335-1:2013/A11:2015/EC:2014/A13:2019/A1/A2/A14:2019 IEC 60335-1:2010/AMD1:2013/AMD2:2016/ISH1:2020 IEC 60335-1:2020	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 mm Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Safety requirements for electrical equipment for measurement, control and laboratory use	4 - Tests; 5 - Marking and documentation; 6 - Protection against electric shock; 7 - Protection against mechanical HAZARDS; 8 - Resistance to mechanical stresses; 9 - Protection against the spread of fire; 10 - Equipment temperature limits and resistance to heat; 11 - Protection against HAZARDS from fluids; 14 - Components and subassemblies; 15 - Protection by interlocks; 16 - HAZARDS resulting from application; 17 - RISK assessment	CEI EN 61010-1:2013/EC:2017/A1:2019 EN 61010-1:2010/A1:2019 IEC 61010-1:2010/AMD1:2016	Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V
	Audio/video, information and communication technology equipment	4 - General requirements; 5 - Electrically-caused injury; 6 - Electrically-caused fire; 7 - Injury caused by hazardous substances; 8 - Mechanically-caused injury; 9 - Thermal burn injury; 10 - Radiation	CEI EN 62368-1:2016/EC:2018/A11:2017 EN 62368-1:2014/AC:2015/A11:2017/AC:2017 EN IEC 62368-1:2020/A11:2020/AC:2020 IEC 62368-1:2018	Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5 500 V
	Luminaires	2 - CLASSIFICATION OF LUMINAIRES; 3 - MARKING; 4 - CONSTRUCTION; 5 - EXTERNAL AND INTERNAL WIRING; 7 - PROVISION FOR EARTHING; 8 - PROTECTION AGAINST ELECTRIC SHOCK; 9 - RESISTANCE TO DUST,	CEI EN 60598-1:2015/A1:2019/EC:2015/EC:2016 EN 60598-1:2015/A1:2018/AC:2015/AC:2016/AC:2017 IEC 60598-1:2020 IEC 60598-1:2014/AMD1:2017	Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93 % of relative humidity Dielectric strength test: up to 5 500 V



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Electrical and Mechanical ^F	Luminaires	SOLID OBJECT AND MOISTURE; 10 - INSUALTION RESISTANCE AND ELECTRIC STRENGTH, TOCUH CURRENT AND PROTECTIVE CONDUCTOR CURRENT; 11 - CREEPAGE DISTANCES AND CLEARANCES; 12 - ENDURANCE TEST AND THERMAL TEST; 13 - RESISTANCE TO HEAT, FIRE AND TRACKING; 14 - SCREW TERMINALS; 15 - SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS	CEI EN 60598-1:2015/A1:2019/EC:2015/EC:2016 EN 60598-1:2015/A1:2018 IEC 60598-1:2020 IEC 60598-1:2014/AMD1:2017	Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93 % of relative humidity Dielectric strength test: up to 5 500 V
	Medical devices	Medical devices — Application of risk management to medical devices	EN ISO 14971:2019; EN ISO 14971:2012	
		Medical electrical equipment Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability	IEC 60601-1-6:2010+AMD1:2013+AMD2:2020	
		Medical devices Application of usability engineering to medical devices	EN 62366-1:2015/AC:2015/A1:2020 ; IEC 62366-1:2015/A1:2020	Power/current absorption up to 16 A Leakage current up to 5 mA
		Medical device software Software life-cycle processes	IEC 62304:2006+AMD 1:2015; EN 62304-1:2006/A1:2015	Up to 93 % of relative humidity Dielectric strength test: up to 5 500 V



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - vacuum cleaners and water-suction cleaning appliances	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14 - Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 - Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 -Stability and mechanical hazards; 21 - Mechanical strength; 22 -Construction; 23 -Internal wiring; 24 -Components; 25 -Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 -Provision for earthing; 28- Screws and connections; 29 -Clearances, creepage distances and solid insulation; 30 -Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-2:2009/AMD1:2012/AMD2:2016 IEC 60335-2-2:2019 EN 60335-2-2:2010/A1:2013/A11:2012	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - electric irons	4 - General requirement; 5 - General conditions for the tests; 6 -Classification; 7 -Marking and instructions; 8 - Protection against access to live parts; 9 -Starting of motoroperated appliances; 10 -Power input and current; 11 - Heating; 13 -Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 -Endurance; 19 -Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 -Construction; 23 -Internal wiring; 24 -Components; 25 -Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 -Provision for earthing; 28- Screws and connections; 29 -Clearences, creepage distances and solid insulation; 30 -Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-3:2012+A1:2015 EN 60335-2-3:2016/A1:2020	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - havers, hair clippers and similar appliances	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 -Starting of motoroperated appliances; 10 -Power input and current; 11 - Heating; 13 -Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 -Endurance; 19 -Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 -Provision for earthing; 28 - Screws and connections; 29 - Clearances, creepage distances and solid insulation; 30 -Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-8:2012+AMD1:2015+AMD2:2018 EN 60335-2-8:2015/A1:2016/A2:2022/A11:2022/A12:2022	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - grills, toasters and similar portable cooking appliances	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 -Marking and instructions; 8 - Protection against access to live parts; 9 -Starting of motoroperated appliances; 10 -Power input and current; 11 - Heating; 13 -Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 -Endurance; 19 - Abnormal operation; 20 -Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 -Internal wiring; 24 -Components; 25 -Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws and connections; 29 -Clearences, creepage distances and solid insulation; 30 -Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-9:2019, EN 60335-2-9:2003/A12:2007/A13:2010/AC:2011/AC:2012/A1:2004/A2:2006	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - warming plates and similar appliances	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 -Starting of motoroperated appliances; 10 -Power input and current; 11 - Heating; 13 -Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 - Overload protection of transformers and associated circuits; 18 -Endurance; 19 -Abnormal operation; 20 -Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 -Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 -Provision for earthing; 28- Screws and connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-12:2002+AMD1:2008+AMD2:2017, EN 60335-2-12:2003/A1:2008/A2:2019/A11:2019	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - deep fat fryers, frying pans and similar appliances	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 -Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14 - Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 - Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - rovision for earthing; 28 - Screws and connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation toxicity and similar hazards	IEC 60335-2-13:2021; IEC 60335-2-13:2009+AMD1:2016; EN 60335-2-13:2010/A11:2012/A1:2019	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - kitchen machines	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A1:2008/A11:2012/AC:2016/A12:2016	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - heating liquids	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-15:2012+AMD1:2016+AMD2:2018, EN 60335-2-15:2016/A11:2018/A12:2021/A1:2021/A2:2021	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - appliances for skin or hair care	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-23:2016+AMD1:2019, EN 60335-2-23:2003/A11:2010/AC:2012/A1:2008/A2:2015	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - refrigerating appliances, ice-cream appliances and ice makers	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-24:2020 EN 60335-2-24:2010 /A1:2019/A2:2019/A11:2020	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - skin exposure to optical radiation	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-27:2019, EN 60335-2-27:2013,A1:2020/A2:2020	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus battery chargers	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-29:2016+AMD1:2019, EN 60335-2-29:2021/A1:2021	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - range hoods and other cooking fume extractors	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-31:2012+AMD1:2016+AMD2:2018, EN 60335-2-31:2014	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - massage appliances	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2:32:2019, EN 60335-2-32:2021;	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - instantaneous water heaters	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-35:2012+AMD1:2016+AMD2:2020, EN 60335-2-35:2016/A1:2019/A2:2021	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - insect killers	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-59:2002/A1:2006/A2:2009, IEC 60335-2-59:2021 EN 60335-2-59:2003/A1:2006/A2:2009/A11:2018	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - air-cleaning appliances	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-65:2002/Ec1:2004/A1:2008,, EN 60335-2-65:2003/A1:2008/A11:2012/A12:2022/A2:2022	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - commercial dispensing appliances and vending machines	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	IEC 60335-2-75:2012+AMD1:2015+AMD2:2018, EN 60335-2-75:2004/A1:2005/A11:2006/A2:2008/A12:2010	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Household appliances, electric tools and similar apparatus - fans	4 - General requirement; 5 - General conditions for the tests; 6 - Classification; 7 - Marking and instructions; 8 - Protection against access to live parts; 9 - Starting of motoroperated appliances; 10 - Power input and current; 11 - Heating; 13 - Leakage current and electric strength at operating temperature; 14- Transient overvoltages; 15 - Moisture resistance; 16 - Leakage current and electric strength; 17 -Overload protection of transformers and associated circuits; 18 - Endurance; 19 - Abnormal operation; 20 - Stability and mechanical hazards; 21 - Mechanical strength; 22 - Construction; 23 - Internal wiring; 24 - Components; 25 - Supply connection and external flexible cords; 26 - Terminals for external conductors; 27 - Provision for earthing; 28 - Screws an connections; 29 - Clearances, creepage distances and solid insulation; 30 - Resistance to heat and fire; 31 - Resistance to rusting; 32 - Radiation, toxicity and similar hazards	EN 60335-2-80:2003/A1:2004/A2:2009, IEC 60335-2-80:2015	Visual examination Power/current absorption up to 16 A 3 kW Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: - 40 °C to 180 °C Fault condition up to 63 A Pull force up to 100 N;



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Electrical and Mechanical ^F	Medical electrical equipment - high frequency surgical equipment and high frequency surgical accessories	§ 4 - General requirements; § 5 - General requirements for testing ME EQUIPMENT § 6 - Classification of ME EQUIPMENT and ME SYSTEMS ; § 7 - ME EQUIPMENT identification, marking and documents; § 8 Protection against electrical HAZARDS from ME EQUIPMENT § 9 - Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS ; § 10 - Protection against unwanted and excessive radiation HAZARDS ; § 11 Protection against excessive temperatures and other HAZARDS ; § 12 - Accuracy of controls and instruments and protection against hazardous outputs; § 13 HAZARDOUS SITUATIONS and fault conditions; § 14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) ; § 15 - Construction of ME EQUIPMENT ; § 16 ME SYSTEMS ; § 17 - Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	IEC 60601-2-2:2017; EN 60601-2-2:2018	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C



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FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Electrical and Mechanical ^F	Medical electrical equipment - endoscopic equipment	§ 4 - General requirements; §5 - General requirements for testing ME EQUIPMENT §6 - Classification of ME EQUIPMENT and ME SYSTEMS ; §7 - ME EQUIPMENT identification, marking and documents; §8 Protection against electrical HAZARDS from ME EQUIPMENT § 9 - Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS ; §10 - Protection against unwanted and excessive radiation HAZARDS ; §11 Protection against excessive temperatures and other HAZARDS ; §12 - Accuracy of controls and instruments and protection against hazardous outputs; §13 HAZARDOUS SITUATIONS and fault conditions; §14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) ; §15 - Construction of ME EQUIPMENT ; §16 ME SYSTEMS ; §17 - Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	EN 60601-2-18:2015; IEC 60601-2-18:2009	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C



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Electrical and Mechanical ^F	Medical electrical equipment - infant phototherapy equipment	§ 4 - General requirements; §5 - General requirements for testing ME EQUIPMENT §6 - Classification of ME EQUIPMENT and ME SYSTEMS; §7 - ME EQUIPMENT identification, marking and documents; §8 Protection against electrical HAZARDS from ME EQUIPMENT §9 - Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS; §10 - Protection against unwanted and excessive radiation HAZARDS; §11 Protection against excessive temperatures and other HAZARDS; §12 - Accuracy of controls and instruments and protection against hazardous outputs; §13 HAZARDOUS SITUATIONS and fault conditions; §14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) ; §15 - Construction of ME EQUIPMENT; §16 ME SYSTEMS; §17 - Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	EN 60601-2-50:2021; IEC 60601-2-50:2020	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C



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Electrical and Mechanical ^F	Medical electrical equipment - infant transport incubators	§ 4 - General requirements; §5 - General requirements for testing ME EQUIPMENT §6 - Classification of ME EQUIPMENT and ME SYSTEMS; §7 - ME EQUIPMENT identification, marking and documents; §8 Protection against electrical HAZARDS from ME EQUIPMENT § 9 - Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS; §10 - Protection against unwanted and excessive radiation HAZARDS; §11 Protection against excessive temperatures and other HAZARDS; §12 - Accuracy of controls and instruments and protection against hazardous outputs; §13 HAZARDOUS SITUATIONS and fault conditions; §14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) ; §15 - Construction of ME EQUIPMENT; §16 ME SYSTEMS; §17 - Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	EN IEC 60601-2-20:2020 , IEC 60601-2-20:2020	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C



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Electrical and Mechanical ^F	Medical electrical equipment - medical beds	§ 4 - General requirements; §5 - General requirements for testing ME EQUIPMENT §6 - Classification of ME EQUIPMENT and ME SYSTEMS; §7 - ME EQUIPMENT identification, marking and documents; §8 Protection against electrical HAZARDS from ME EQUIPMENT § 9 - Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS; §10 - Protection against unwanted and excessive radiation HAZARDS; §11 Protection against excessive temperatures and other HAZARDS; §12 - Accuracy of controls and instruments and protection against hazardous outputs; §13HAZARDOUS SITUATIONS and fault conditions; §14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) ; §15 - Construction of ME EQUIPMENT; §16 ME SYSTEMS; §17 - Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	EN 60601-2-52:2010/A1:2015/AC:2011, IEC 60601-2-52:2009/A1:2015	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C



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Electrical and Mechanical ^F	Medical electrical equipment - infant radiant warmers	§ 4 - General requirements; §5 - General requirements for testing ME EQUIPMENT §6 - Classification of ME EQUIPMENT and ME SYSTEMS; §7 - ME EQUIPMENT identification, marking and documents; §8 Protection against electrical HAZARDS from ME EQUIPMENT § 9 - Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS; §10 - Protection against unwanted and excessive radiation HAZARDS; §11 Protection against excessive temperatures and other HAZARDS; §12 - Accuracy of controls and instruments and protection against hazardous outputs; §13HAZARDOUS SITUATIONS and fault conditions; §14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) ; §15 - Construction of ME EQUIPMENT; §16 ME SYSTEMS; §17 - Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	EN 60601-2-21:2021, IEC 60601-2-21:2020	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C



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Electrical and Mechanical ^F	Medical electrical equipment - haemodialysis, haemodiafiltration and haemofiltration equipment	§ 4 - General requirements; §5 - General requirements for testing ME EQUIPMENT §6 - Classification of ME EQUIPMENT and ME SYSTEMS; §7 - ME EQUIPMENT identification, marking and documents; §8 Protection against electrical HAZARDS from ME EQUIPMENT § 9 - Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS; §10 - Protection against unwanted and excessive radiation HAZARDS; §11 Protection against excessive temperatures and other HAZARDS; §12 - Accuracy of controls and instruments and protection against hazardous outputs; §13HAZARDOUS SITUATIONS and fault conditions; §14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) ; §15 - Construction of ME EQUIPMENT; §16 ME SYSTEMS; §17 - Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	EN 60601-2-16:2019 IEC 60601-2-16:2018	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C



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Electrical and Mechanical ^F	Medical electrical equipment - nerve and musculostimulators	§4 – General requirements; §5 – General requirements for testing ME EQUIPMENT §6 – Classification of ME EQUIPMENT and ME SYSTEMS; §7 – ME EQUIPMENT identification, marking and documents; §8 – Protection against electrical HAZARDS from ME EQUIPMENT §9 – Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS; §10 – Protection against unwanted and excessive radiation HAZARDS; §11 – Protection against excessive temperatures and other HAZARDS; §12 – Accuracy of controls and instruments and protection against hazardous outputs; §13 – HAZARDOUS SITUATIONS and fault conditions; §14 – PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) ; §15 – Construction of ME EQUIPMENT; §16 – ME SYSTEMS; §17 – Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	EN 60601-2-10:2015/A1:2016, IEC 60601-2-10:2012/A1:2016	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C



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Electrical and Mechanical ^F	Medical electrical equipment - ultrasonic physiotherapy equipment	§4 – General requirements; §5 – General requirements for testing ME EQUIPMENT §6 – Classification of ME EQUIPMENT and ME SYSTEMS; §7 – ME EQUIPMENT identification, marking and documents; §8 – Protection against electrical HAZARDS from ME EQUIPMENT §9 – Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS; §10 – Protection against unwanted and excessive radiation HAZARDS; §11 – Protection against excessive temperatures and other HAZARDS; §12 – Accuracy of controls and instruments and protection against hazardous outputs; §13 – HAZARDOUS SITUATIONS and fault conditions; §14 – PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) ; §15 – Construction of ME EQUIPMENT; §16 – ME SYSTEMS; §17 – Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	EN 60601-2-5:2015, IEC 60601-2-5:2009	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: -40 °C to 180 °C



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Environmental ^F	Medical electrical equipment -	4.1 Identification of ENVIRONMENTAL ASPECTS. 4.2 Determination of significant ENVIRONMENTAL ASPECTS 4.3 Information from the SUPPLY CHAIN 4.4 Reduction of adverse ENVIRONMENTAL IMPACTS 4.5 Environmental information	IEC 60601-1-9:2007+AMD1:2013+AMD2:2020, EN 60601-1-9:2008/A1:2013/A2:2020	Requirements for environmentally conscious design
Electromagnetic compatibility tests ^F	Electrical equipment for measurement, control and laboratory use	Immunity to electromagnetic radiated fields, injected RF currents, magnetic fields at mains frequency, burst, surge, ESD and dips Conducted emission tests, Radiated emission test	EN IEC 61326-1:2021, IEC 61326-1:2020	Visual examination Electromagnetic fields up to 10V/m from 80 MHz to 2 700 MHz RF currents from 150kHz to 80MHz with level up to 10V Magnetic field a with level up to 30 A/m Burst and fast transient up to 4 KV Surge up to 4 KV ESD up to 15 KV Conducted emissions in the frequency range 150kHz to 30 MHz Radiated emission test 30 MHz to 1 GHz Immunity to dips and voltage variations from 10ms to 5s



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IP degrees ^F	Electrical equipment	4 designation 5 degrees of protection against access to hazardous parts and against solid foreign objects indicated by the first characteristic numeral 6 degrees of protection against ingress of water indicated by the second characteristic numeral 7 degrees of protection against access to hazardous parts indicated by the additional letter 8 supplementary letters 9 examples of designations with the ip code 10 marking 11 examples of designations with the ip code 12 tests for protection against access to hazardous parts indicated by the first characteristic numeral 13 tests for protection against solid foreign objects indicated by the first characteristic numeral 14 tests for protection against water indicated by the second characteristic numeral 15 tests for protection against access to hazardous parts indicated by the additional letter	EN 60529:1991/corr:1993/A1:2000/A2:2013/EC:2016/A2AC:2019 IEC 529:1989/IEC 60529/A1:1999/A2:2013/COR2:2015/A2/COR1:2019	All IP degrees
Environmental test ^F	Components or equipment	4 general test procedure 5 measurements 6 Information to be given in the relevant specification 7 Information to be given in the test report	IEC 60068-2-78:2012 EN 60068-2-78:2013	UP TO 40°C Up to 93% RH



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Electrical and Mechanical ^F	Medical electrical equipment-short-wave therapy equipment	§ 4 – General requirements; §5 – General requirements for testing ME EQUIPMENT §6 – Classification of ME EQUIPMENT and ME SYSTEMS; §7 – ME EQUIPMENT identification, marking and documents; §8 Protection against electrical HAZARDS from ME EQUIPMENT § 9 - Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS; §10 - Protection against unwanted and excessive radiation HAZARDS; §11- Protection against excessive temperatures and other HAZARDS; §12 - Accuracy of controls and instruments and protection against hazardous outputs; §13HAZARDOUS SITUATIONS and fault conditions; §14 PROGRAMMABLE ELECTRICAL MEDICAL SYSTEMS (PEMS) ; §15 - Construction of ME EQUIPMENT; §16 ME SYSTEMS; §17 -Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	IEC 60601-2-3:2012/AMD1:2016 EN 60601-2-3:2015/A1:2016	Visual examination Power/current absorption up to 16 A Leakage current up to 5 mA Up to 93% of relative humidity Dielectric strength test: up to 5500 V Clearance, creepage 0.01 mm to 1 m Angle: up to 10° Force up to 250 N Acoustic noise up to 140 dBA Climatic chamber: 20 to 32 °C



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Electrical and mechanical ^F	Machinery	4- general requirements 5 Incoming supply conductor terminations and devices for disconnecting and switching off 6 Protection against electric shock 7 Protection of equipment 8 equipotential bonding 9 Control circuits and control functions 10 Operator interface and machine-mounted control devices 11 Controlgear: location. Mounting, and enclosures 12 Conductors and cables 13 Wiring practices 14 Electric motors and associated equipment 15 Socket-outlets and lighting 16 Marking, Warning signs and reference designations 17 Technical documentation 18 Verification	IEC 60204-1:2016/AMD1:2021 EN 60204-1:2018	Visual examination Documental examination Clearance, creepage 0.01 mm to 1 m IP grade Mechanical inspection Marking inspection

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this testing at its fixed location.