


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p><b>0225</b></p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>Nemko Ltd</b></p> <p>Issue No: 057    Issue date: 16 April 2021</p>	
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<p>Testing performed at the above address only</p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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In this schedule, where EN standards are detailed, the equivalent BS EN standards are also included in the accreditation.



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<p><u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES</u></p> <p>Household and Similar Electrical Appliances</p> <p>General requirements</p>	<p><u>ELECTRICAL PRODUCT TESTS</u></p> <p>Electrical safety Safety tests on Single Phase Equipment only</p> <p>Maximum dimensions 990 mm x 990 mm x 1000 mm</p>	<p>EN 60335-1:2012 + A11 +A13:2017, A1:2019, A14:2019, A2:2019 IEC 60335-1:2010 + A1, A2 Excluding: Clause 14, Transient overvoltages Clause 19.11.4, EMC test Clause 22.32, Oxygen bomb test Clause 22.46, software class B and C Annex F Annex R, software evaluation Annex T</p> <p>EN 60335-1:2002, Amds A1, A2, A11 - A15 (withdrawn) IEC 60335-1:2001, Amd A1 and A2 (withdrawn) Excluding: Clause 14, Transient overvoltages Clause 19.11.4, EMC test Clause 22.32, Oxygen bomb test Clause 22.46, software class B and C Annex F</p>
<p>Vacuum cleaners and water suction cleaning devices</p>	<p>Electrical safety</p>	<p>EN 60335-2-2:2010 + A11 + A1 IEC 60335-2-2:2019 Excluding: 22.Z102 Foot probe test Tests on motorised cleaning heads EN 60335-2-2:2003, Amds A1 A2 and A11 (withdrawn) IEC 60335-2-2:2002, Amds A1 and A2 (withdrawn)</p>



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<p><u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (cont'd)</u></p> <p>Electric irons</p>	<p><u>ELECTRICAL PRODUCT TESTS (cont'd)</u></p> <p>Electrical safety</p>	<p>IEC 60335-2-3:2012, Amd A1 EN 60335-2-3:2016 EN 60335-2-3:2002, Amd 1, A2 and A11 (withdrawn) IEC 60335-2-3:2002, Amd A1 and A2 (withdrawn)</p>
<p>Cooking ranges, cooking tables, ovens and similar appliances for household use</p>	<p>Electrical safety</p>	<p>IEC 60335-2-6:2014 + AMD 1:2018 EN 60335-2-6:2015 Excluding: Pyrolytic self-cleaning ovens Salt mist, shock &amp; vibration test for ovens intended for use on board ships Annex R</p> <p>EN 60335-2-6:2003, + Amds A1, A2, A11 &amp; A12 &amp; A13 (withdrawn) IEC 60335-2-6:2003, + Amds A1 and A2 (withdrawn)</p>
<p>Shavers, hair clippers and similar appliances</p>	<p>Electrical Safety</p>	<p>IEC 60335-2-8:2012, Amd 1+A2:2018 EN 60335-2-8:2015, Amd 1 Excluding: Annex ZAA EN 60335-2-8:2003, Amds A1 and A2 (withdrawn) IEC 60335-2-8:2003, Amds A1 and A2 (withdrawn)</p>
<p>Toasters, grills, roasters and similar appliances</p>	<p>Electrical Safety</p>	<p>IEC 60335-2-9:2019 EN 60335-2-9:2003 Amds A1, A2 A12 and A13 IEC 60335-2-9:2002 Amds A1 and A2 (withdrawn) Excluding: Clause 31, Salt mist test</p>



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<u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES</u> (cont'd)  Tumble Dryers	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  Electrical Safety	IEC 60335-2-11:2008, Amds A1 and A2 EN 60335-2-11:2012, Amds A1 and A11 Excluding: Flammable refrigerants
Plate warmers and similar appliances	Electrical Safety	EN 60335-2-12:2003, Amd A1+A2, :2019, +A11:2019 IEC 60335-2-12:2002, Amd A1 + A2:2017
Deep fat fryer, electric frying pans and similar appliances	Electrical safety	EN 60335-2-13:2010, Amd A11+A1 2019 IEC 60335-13:2009, Amd A1 EN 60335-2-13:2003, Amds A1 and A2 (withdrawn) IEC 60335-2-13:2002, Amds A1 and 2 (withdrawn)
Kitchen machines	Electrical safety	EN 60335-2-14:2006, + A1 + A11 +A12 IEC 60335-2-14:2016 +AMD1:2019 IEC 60335-2-14:2006, + A1 +A2
Appliances for heating liquids	Electrical safety	EN 60335-2-15:2016 +A11:2018 IEC 60335-2-15:2012, Amd A1, AMD2:2018 EN 60335-2-15:2002, Amds A1, A2 and A11 (withdrawn) IEC 60335-2-15:2002, Amds A1 and A2
Storage water heaters	Electrical Safety	IEC 60335-2-21:2012 + AMD1:2018  EN 60335-2-21:2003, Amds A1 and A2 (withdrawn) IEC 60335-2-21:2002, Amds A1 and A2 (withdrawn)



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<u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (cont'd)</u>  Appliances for skin or hair care Including:-	<u>ELECTRICAL PRODUCT TESTS (cont'd)</u>  Electrical safety	IEC 60335-2-23:2016 + AMD1:2019 EN 60335-2-23:2003, Amds A1, A2 and A11(withdrawn) IEC 60335-2-23:2003, Amds A1 and A2 (withdrawn)
Refrigerators, food freezers and ice makers	Electrical safety	EN 60335-2-24:2010 +A1, A2:2019 IEC 60335-2-24:2010, Amd A1 + A2:2017 Excluding: Flammable refrigerants Annex DD EN 60335-2-24:2003, Amds A1, A2 A11 and A12 (withdrawn) IEC 60335-2-24:2002, Amds A1 and A2 (withdrawn) Excluding: Flammable refrigerants
Microwave ovens	Electrical safety	EN 60335-2-25:2012, Amds A1 and A2 IEC 60335-2-25:2020 EN 60335-2-25:2002, Amds A1, A2 and A11 (withdrawn) IEC 60335-2-25:2002, Amds A1 and A2
Ultra-violet and infra-red radiation skin treatment appliances	Electrical safety	EN 60335-2-27:2013 EN 60335-2-27:2010 (withdrawn) IEC 60335-2-27:2019 Excluding: 22.112 software evaluation 32.101 & 32.102 UV tests & 32.103 Goggles
Sewing machines	Electrical safety	EN 60335-2-28:2003, Amd A1, A11:2018 IEC 60335-2-28:2002, Amd A1



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<u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (cont'd)</u>  Battery chargers	<u>ELECTRICAL PRODUCT TESTS (cont'd)</u>  Electrical safety	EN 60335-2-29:2004, Amds 1 and 2, A11:2018 IEC 60335-2-29:2016 +AMD1:2019 IEC 60335-2-29:2002, Amds A1 and A2 (withdrawn)
Room heaters	Electrical safety	EN 60335-2-30:2009, Amd A11 IEC 60335-2-30:2009 +Amd A1:2016 Excluding clause 11.2, 11.8, 19.116, 21.101, 21.105, 21.106, 21.107, 24,29, 30. EN 60335-2-30:2003, Amds A1 and A2 (withdrawn) IEC 60335-2-30:2002, Amds A1 and A2 (withdrawn)
Massage appliances	Electrical safety	EN 60335-2-32:2003, Amds A1 and A2 IEC 60335-2-32:2019 Excluding: Massage belts
Instantaneous water heaters	Electrical safety	IEC 60335-2-35:2012 +Amd A1:2016 EN 60335-2-35:2016+A1:2019 EN 60335-2-35:2002, Amds A1 and A2 (withdrawn) IEC 60335-2-35:2002, Amds A1 and A2
Pumps	Electrical safety	IEC 60335-2-41:2012  EN 60335-2-41:2003, Amds A1 and A2 IEC 60335-2-41:2002, Amds A1 and A2
Commercial electric ovens	Electrical safety	EN 60335-2-42:2003 +A1:2008 +A11:2012 IEC 60335-2-42:2002 +AMD1:2008 +AMD2:2017 Excluding: Ovens intended to be used on-board ships



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<u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (cont'd)</u>  Portable heating tools and similar appliances	<u>ELECTRICAL PRODUCT TESTS (cont'd)</u>  Electrical safety	EN 60335-2-45:2002, Amds A1 and A2 IEC 60335-2-45:2002, Amds A1 and A2
Commercial electric grillers and toasters	Electrical safety	EN 60335-2-48:2003, Amds A1, A11, A2:2019 IEC 60335-2-48:2002, Amds A1 + A2:2017
Oral hygiene appliances connected to the mains supply	Electrical safety	EN 60335-2-52:2003, Amds A1, A11, A12:2019 IEC 60335-2-52:2002, Amds A1 + A2:2017 Excluding: Clause 22.Z103 corrosion test
Surface-cleaning appliances employing liquids	Electrical safety	EN 60335-2-54:2008, Amds A1 and A11 IEC 60335-2-54:2008, Amd A1, AMD 2:2019 Excluding: 21.101 to 21.105 Current carrying hoses
Projectors	Electrical safety	EN 60335-2-56:2003, Amds A1 and A2 IEC 60335-2-56:2002, Amds A1 and A2
Insect killers	Electrical safety	EN 60335-2-59:2003, Amds 1, A 2, A11:2018 IEC 60335-2-59:2002, Amds A1 and A2 Excluding: Clause 31, Salt mist test Clause 32, UV radiation



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<u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (cont'd)</u>  Whirlpool baths	<u>ELECTRICAL PRODUCT TESTS (cont'd)</u>  Electrical safety	EN 60335-2-60:2003, Amds A1, A2, A11 and A12 IEC 60335-2-60:2017
Air-cleaning appliances	Electrical safety	EN 60335-2-65:2003, Amds A1 and A11 IEC 60335-2-65:2002, Amds A1 and A2 Excluding: Clause 23, UV-C resistance test Clause 32, Ozone test and UV radiation measurements
Fixed immersion heaters	Electrical safety	EN 60335-2-73:2003, Amds A1 and A2 IEC 60335-2-73:2002, Amds A1 and A2
Dispensing appliances for food, drink and packaged consumer products	Electrical safety	IEC 60335-2-75:2012, /Amd 2:2018 EN 60335-2-75:2004, Amds A1, A2 A11 and A12 (withdrawn) IEC 60335-2-75:2002, Amds A1 and A2 (withdrawn)
Fans	Electrical safety	EN 60335-2-80:2003, Amds A1 and A2 IEC 60335-2-80:2015 IEC 60335-2-80:2002, Amds A1 and A2 Excluding: Clause 20.101, hardness test





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<p><u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (cont'd)</u></p> <p>Service machines and amusement machines</p>	<p><u>ELECTRICAL PRODUCT TESTS (cont'd)</u></p> <p>Electrical safety</p>	<p>IEC 60335-2-82:2017 EN 60335-2-82:2003, Amd A1, Amd 2:2020 IEC 60335-2-82:2002, Amds A1 and A2 Excluding: Clause 31, corrosion test (salt mist) Annex R, software evaluation</p>
<p>Commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor</p>	<p>Electrical safety</p>	<p>EN 60335-2-89:2010, Amd A1 + A2 IEC 60335-2-89:2019 Excluding: Hygiene requirements EN ISO 14159 Ergonomic principles EN 614 Flammable refrigerants</p>
<p>Commercial microwave ovens</p>	<p>Electrical safety</p>	<p>EN 60335-2-90:2006, Amd A1 IEC 60335-2-90:2015 +AMD1:2019 IEC 60335-2-90:2006, Amd A1 Excluding: Clause 22, Vibration test for commercial road vehicles Annex BB, Conveyor belt microwave ovens Annex EE, on board ship ovens</p>
<p>Humidifiers</p>	<p>Electrical safety</p>	<p>EN 60335-2-98:2003, Amds A1, A2, A11:2019 IEC 60335-2-98:2002, Amds A1 and A2</p>
<p>Vaporizers</p>	<p>Electrical safety</p>	<p>EN 60335-2-101:2002, Amds A1 and A2 IEC 60335-2-101:2002, Amds A1 and A2 Excluding: Clause 32, Toxicity</p>



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<u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (cont'd)</u>  Household electrical appliances - Measurement of standby power.	<u>ELECTRICAL PRODUCT TESTS (cont'd)</u>  Power consumption	EN 62301:2005 IEC 62301:2005
Household and similar electrical appliances. Electromagnetic fields. Methods for evaluation and measurement	EMF Tests	EN 50366:2003
Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	EMF Tests	EN 62233:2008
<u>SECTION 2: LUMINAIRES</u>  Luminaires  General Requirements	<u>ELECTRICAL PRODUCT TESTS</u>  Electrical safety  Electrical, Mechanical and Thermal	EN 60598-1:2015 + A1:2018 IEC 60598-1:2014 + Amd1:2017 Excluding: Clause 4.24.2 Retinal blue light test  EN 60598-1:2008, Amd A11 IEC 60598-1:2008  EN 60598-1:2004, Amd A1 (withdrawn) IEC 60598-1:2003, Amd A1 (withdrawn) Excluding: Clause 4.4.4, Test Gauges 7006-47 and 7006-60 Section 4, Torque tests above $\pm 40\text{Nm}$
Fixed luminaires	Electrical safety	EN 60598-2-1:1989 IEC 60598-2-1:2020



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<u>SECTION 2: LUMINAIRES</u> (cont'd)  Recessed luminaires	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  Electrical safety	EN 60598-2-2:2012 IEC 60598-2-2:2011 EN 60598-2-2:1996, Amd A1 (withdrawn) IEC 60598-2-2:1996, Amd A1
Luminaires for road & street lighting	Electrical safety	EN 60598-2-3:2003 + A1 IEC 60598-2-3:2002 + A1 Excluding: Annex A wind tunnel measurements
Portable luminaires	Electrical safety	IEC60598-2-4:2017 EN 60598-2-4:2018
Floodlights	Electrical safety	IEC 60598-2-5:2015 EN 60598-2-5:2015
Luminaires with built in transformers	Electrical safety	EN 60598-2-6:1994, Amd A1 IEC 60598-2-6:1994, Amd A1
Portable luminaires for garden use	Electrical safety	EN 60598-2-7:1989, Amds A2, A11, A12 and A13 IEC 60598-2-7:1982, Amds A1 and A2
Handlamps	Electrical safety	EN 60598-2-8:2013 IEC 60598-2-8:2013
Portable luminaires for children	Electrical safety	EN 60598-2-10:2003 IEC 60598-2-10:2003 Excluding: Clause 10.15.2, Flame test



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<u>SECTION 2: LUMINAIRES</u> (cont'd)  Aquarium luminaires	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  Electrical safety	EN 60598-2-11:2013 IEC 60598-2-11:2013
Mains socket-outlet mounted nightlights	Electrical safety	EN 60598-2-12:2013 IEC 60598-2-12:2013
Ground recessed luminaires	Electrical safety	IEC61347-2-13:2014 EN 60598-2-13:2006, Amd A1+A2:2016 IEC 60598-2-13:2006, Amd A1, +A2:2016
Luminaires for stage lighting, TV, Film and Photographic Studios (outdoor and indoor)	Electrical safety	EN 60598-2-17:2018 IEC 60598-2-17:2017 BS 4533:Part 102:Section 102.17: 1990, Amds 1 to 3
Lighting chains	Electrical safety	EN 60598-2-20:2015 IEC 60598-2-20:2014 EN 60598-2-20:1997, Amds A1 and A2 (withdrawn) IEC 60598-2-20:1996, Amds A1 and A2
Luminaires for emergency lighting	Electrical safety	IEC 60598-2-22:2014 +A1:2017 EN 60598-2-22:2014+A1:2020 Excluding: 22.17 Light output measurements EN 60598-2-22:1998 + A1 + A2 (withdrawn) IEC 60598-2-22:1997 + A1 + A2 (withdrawn) Excluding: 22.6.8 Tests on rechargeable batteries 22.16-22.18 Light output measurements
Luminaires with limited surface temperature	Electrical safety	EN 60598-2-24:2013 IEC 60598-2-24:2013 EN 60598-2-24:1999 IEC 60598-2-24:1997



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SECTION 2: LUMINAIRES (cont'd)  Self-ballasted lamps for general lighting services	ELECTRICAL PRODUCT TESTS (cont'd)  Electrical safety	EN.60968:2013 + A11 IEC.60968:2012 Excluding UV radiation test  EN 60968:2000, Amds A1 and A2 (withdrawn) IEC 60968:1988, Amds A1 and A2
Self-ballasted LED lamps for general lighting services by voltage > 50 V	Electrical safety	EN 62560: 2012 +A1: 2015, +A11: 2019 IEC 62560: 2011 +A1: 2015 Excluding: 6.1 Lamp cap gauges except B15 & B22 9.1 Torsion resistance test
Lamp Controlgear General and Safety Requirements	Electrical safety	EN 61347-1:2015 IEC 61347-1:2015 +A1:2017 Excluding: Clause 14.7 Annex P EN 61347-1:2008, + A1 + A2 IEC 61347-1:2007, + A1 + A2 EN 61347-1:2001 (withdrawn) IEC 61347-1:2000
DC and AC supplied electronic step down converters for filament lamps	Electrical safety	EN 61347-2-2:2012 IEC 61347-2-2:2012 EN 61347-2-2:2001, Amds A1 and A2 (withdrawn) IEC 61347-2-2:2000, Amds A1 and A2
AC electronic ballasts	Electrical safety	EN 61347-2-3: 2011 +A1: 2017 IEC 61347-2-3:2011 +A1:2016 EN 61347-2-3:2001, Amds A1 and A2 (withdrawn) IEC 61347-2-3:2000, Amds A1 and A2



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SECTION 2: LUMINAIRES (cont'd)  Miscellaneous electronic circuits used with luminaires	ELECTRICAL PRODUCT TESTS (cont'd)  Electrical safety	EN 61347-2-11: 2001 +A1: 2019 IEC 61347-2-11:2001 +A1:2017
DC or AC supplied electronic controlgear for LED modules	Electrical safety	EN 61347-2-13: 2014 +A1: 2017 IEC 61347-2-13: 2014 +A1: 2016
LED Modules for general lighting. Safety specifications	Electrical safety	EN 62031: 2008 +A1: 2013 +A2: 2015 excluding: Photobiological safety IEC 62031: 2018 excluding: Photobiological safety
SECTION 3: ELECTRICAL WIRING ACCESSORIES  Ceiling roses	ELECTRICAL PRODUCT TESTS  Electrical safety	BS 67:1987
Two-pole and earthing-pin plugs, socket-outlets and socket-outlet adaptors	<u>Electrical safety</u> <u>Ratings: 2A,5A and 15A, 250V ac</u>	BS 546:1950, Amds 1 to 8 Supplements 1 & 2 Excluding: Clause 39, plugs with fuses other than BS 1362
13A rewirable and non-rewirable plugs	Electrical safety	BS 1363-1:2016 + A1:2018 (excluding: EMC) BS 1363-1:1995 +A4: 2012
13A switched and unswitched socket-outlets	Electrical safety	BS 1363-2:2016 + A1:2018 (excluding: EMC) BS 1363-2:1995 +A4: 2012
13A adaptors	Electrical safety	BS 1363-3:2016 + A1:2018 (excluding: EMC) BS 1363-3:1995 +A4: 2012
13A fused connection units switched and unswitched	Electrical safety	BS 1363-4:2016 + A1:2018 (excluding: EMC) BS 1363-4:1995 +A4: 2012



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<u>SECTION 3: ELECTRICAL WIRING ACCESSORIES (cont'd)</u>  13A fused conversion plugs	<u>ELECTRICAL PRODUCT TESTS (cont'd)</u>  Electrical safety	BS 1363-5:2016 BS 1363-5:2008
13A rewirable and non-rewirable plugs	<u>Electrical safety</u>	IS 401:1997
<u>Travel adaptors compatible with UK plug and socket system specification</u>	<u>Electrical safety</u>	BS 8546:2016 + A1:2018 Excluding EMC
Plugs and socket-outlets for household and similar use	Electrical safety	IEC 60884-1:2002, + A1 + A2 Limited to:- a) CEE 7 10/16A plugs and socket-outlets to standard sheets I, II, III, IV, V, VI, VII, XVI & XVII b) Danish socket-outlets to DS 107-2-D1: 4 <sup>th</sup> Edition Figures D2, D7A, D7B, D7D, D11, and D18 c) Devices incorporating BS 1363 plug pins and/or socket outlets d) SEV 1011: 2009+A1:2012 plug and socket type 11 and plug and socket type 12 e) IS 1293: 2005 f) SS 428 08 34 ed 2 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI & XVII g) NEK 502: 2006 ed 2 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI & XVII h) SFS 5610: 2004 + A1:2008 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI & XVII i) SANS 164-1: 2016 plugs and socket-outlets to standard sheets 1-1 & 1-2



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<p><u>SECTION 3: ELECTRICAL WIRING ACCESSORIES</u> (cont'd)</p> <p>Plugs and socket-outlets for household and similar use (cont'd)</p>	<p><u>ELECTRICAL PRODUCT TESTS</u> (cont'd)</p> <p>Electrical safety (cont'd)</p>	<p>j) SANS 164-3: 2017 plugs and socket-outlets to standard sheets 3-1 &amp; 3-2</p> <p>k) SANS 164-4: 2017 socket-outlets to standard sheets 4.1.2</p> <p>l) KSC 8305: 2011</p> <p>m) SNI 04-3892.1-2006</p> <p>n) IRAM 2073: 2009 / IRAM 2063: 2009</p> <p>o) ABNT 14136:2012 (corrigenda 3) socket-outlets to figures A.1 – A.6 &amp; A.9 – A.12 and plugs to figures A.7, A.8, A.13 &amp; A.14</p> <p>p) ANSI NEMA WD6:2002 R2008 1-15 &amp; 5-15 types only</p> <p>q) CEI 23-50; V1, V2, V3, V4</p> <p>r) NCh 2027/1: 2008</p> <p>s) SANS 164-2-1 &amp; 2-2: 2014 (IEC 60906-1 plug type)</p> <p>t) SANS 164-5: 2007/R2012 (2.5A two pole plug type)</p> <p>u) SANS 164-6: 2010 (16A two pole plug type)</p> <p>v) VDE 0620-1: 2010 plugs and socket-outlets to standard sheets: DIN 49406-1, DIN 49440, DIN 49441 &amp; DIN 49464</p> <p>x) NF C 61-314-2002 plugs and socket-outlets to standard sheets: Norme I, Norme II, Norme IIIA &amp; Norme V</p>





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<p><u>SECTION 3: ELECTRICAL WIRING ACCESSORIES</u> (cont'd)</p> <p>Switched socket-outlets without interlocks for fixed installation</p>	<p><u>ELECTRICAL PRODUCT TESTS</u> (cont'd)</p> <p>Electrical safety</p>	<p>IEC 60884-2-3:2006 Limited to:- a) CEE 7 10/16A socket-outlets to standard sheets I, II, III, IV, V, VI, VII, XVI &amp; XVII b) Danish socket-outlets to DS 107-2-D1: 4<sup>th</sup> Edition Figures D2, D7A, D7B, D7D, D11, and D18 c) Devices incorporating BS 1363 socket outlets d) SEV 1011: 2009 +A1:2012 plug and socket type 11 and plug and socket type 12 e) IS 1293: 2005 f) SS 428 08 43 ed 2 socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Switched socket-outlets without interlocks for fixed installation (cont'd)	Electrical safety (cont'd)	IEC 60884-2-3:2006 Limited to:- a) CEE 7 10/16A socket-outlets to standard sheets I, II, III, IV, V, VI, VII, XVI & XVII b) Danish socket-outlets to DS 107-2-D1: 4 <sup>th</sup> Edition Figures D2, D7A, D7B, D7D, D11, and D18 c) Devices incorporating BS 1363 socket outlets d) SEV 1011: 2009 plug and socket type 11 and plug and socket type 12 e) IS 1293: 2005 f) SS 428 08 43 ed 2 socket-outlets to standard sheets I, II, III, IV, VII, XVI & XVII g) NEK 502: 2006 ed 2 socket-outlets to standard sheets I, II, III, IV, VII, XVI & XVII h) SFS 5610: 2004 + A1:2008 socket-outlets to standard sheets I, II, III, IV, VII, XVI & XVII i) SANS 164-1: 2016 plugs and socket-outlets to standard sheets 1-1 & 1-2 j) SANS 164-3: 2017 plugs and socket-outlets to standard sheets 3-1 & 3-2 k) SANS 164-4: 2017 socket-outlets to standard sheets 4.1.2 l) KSC 8305: 2011 m) SNI 04-3892.1-2006 n) IRAM 2073: 2009 / IRAM 2063: 2009 o) ABNT 14136:2012 (corrigenda 3) socket-outlets to figures A.1 – A.6 & A.9 – A.12 and plugs to figures A.7, A.8, A.13 & A.14 p) ANSI NEMA WD6:2002 R2008 1-15 & 5-15 types only q) CEI 23-50; V1, V2, V3, V4 r) NCh 2027/1: 2008 s) SANS 164-2-1 & 2-2: 2014 (IEC 60906-1 plug type)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p><u>SECTION 3: ELECTRICAL WIRING ACCESSORIES</u> (cont'd)</p> <p>Switched socket-outlets without interlocks for fixed installation (cont'd)</p> <p>Adaptors</p>	<p><u>ELECTRICAL PRODUCT TESTS</u> (cont'd)</p> <p>Electrical safety (cont'd)</p> <p>Electrical safety</p>	<p>t) SANS 164-5: 2007/R2012 (2.5A two pole plug type)</p> <p>u) SANS 164-6: 2010 (16A two pole plug type)</p> <p>IEC 60884-2-5: 2017 IEC 60884-2-5:1995 Limited to:-</p> <p>a) CEE 7 10/16A plugs and socket-outlets to standard sheets I, II, III, IV, V, VI, VII, XVI &amp; XVII</p> <p>b) Danish socket-outlets to DS 107-2-D1: 4<sup>th</sup> Edition Figures D2, D7A, D7B, D7D, D11, and D18</p> <p>c) Devices incorporating BS 1363 plug pins and/or socket outlets</p> <p>d) SEV 1011: 2009 +A1:2012 plug and socket type 11 and plug and socket type 12</p> <p>e) IS 1293: 2005</p> <p>f) SS 428 08 43 ed 2 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</p> <p>g) NEK 502: 2006 ed 2 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</p> <p>h) SFS 5610: 2004 + A1:2008 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</p> <p>i) SANS 164-1: 2016 plugs and socket-outlets to standard sheets 1-1 &amp; 1-2</p> <p>j) SANS 164-3: 2017 plugs and socket-outlets to standard sheets 3-1 &amp; 3-2</p> <p>k) SANS 164-4: 2017 socket-outlets to standard sheets 4.1.2</p> <p>l) KSC 8305: 2011</p> <p>m) SNI 04-3892.1-2006</p> <p>n) IRAM 2073: 2009 / IRAM 2063: 2009</p> <p>o) ABNT 14136:2012 (corrigenda)</p>



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<p><u>SECTION 3: ELECTRICAL WIRING ACCESSORIES</u> (cont'd)</p> <p>Adaptors (cont'd)</p>	<p><u>ELECTRICAL PRODUCT TESTS</u> (cont'd)</p> <p>Electrical safety (cont'd)</p>	<p>3) socket-outlets to figures A.1 – A.6 &amp; A.9 – A.12 and plugs to figures A.7, A.8, A.13 &amp; A.14</p> <p>p) ANSI NEMA WD6:2002 R2008 1-15 &amp; 5-15 types only</p> <p>q) CEI 23-50; V1, V2, V3, V4</p> <p>r) NCh 2027/1: 2008</p> <p>s) SANS 164-2-1 &amp; 2-2: 2014 (IEC 60906-1 plug type)</p> <p>t) SANS 164-5: 2007/R2012 (2.5A two pole plug type)</p> <p>u) SANS 164-6: 2010 (16A two pole plug type)</p> <p>q) CEI 23-50; V1, V2, V3, V4</p> <p>r) NCh 2027/1: 2008</p> <p>s) SANS 164-2-1 &amp; 2-2: 2014 (IEC 60906-1 plug type)</p> <p>t) SANS 164-5: 2007/R2012 (2.5A two pole plug type)</p> <p>u) SANS 164-6: 2010 (16A two pole plug type)</p>
<p>Cord extension sets</p>	<p>Electrical safety</p>	<p>IEC 60884-2-7: 2011 + A1: 2013 Limited to:-</p> <p>a) CEE 7 10/16A plugs and socket outlets to standard sheets I, II, III, IV, V, VI, VII, XVI &amp; XVII</p> <p>b) Danish socket-outlets to DS 107-2-D1: 4th Edition Figures D2, D7A, D7B, D7D, D11, and D18</p> <p>c) Devices incorporating BS 1363 plug pins and/or socket outlets</p> <p>d) SEV 1011: 2009+A1:2012 plug and socket type 11 and plug and socket type 12 e) IS 1293: 2005</p> <p>f) SS 428 08 43 ed 2 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</p> <p>g) NEK 502: 2006 ed 2 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</p>



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<p><u>SECTION 3: ELECTRICAL WIRING ACCESSORIES</u> (cont'd)</p> <p>Cord extension sets (cont'd)</p>	<p><u>ELECTRICAL PRODUCT TESTS</u> (cont'd)</p> <p>Electrical safety (cont'd)</p>	<p>h) SFS 5610: 2004 + A1:2008 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</p> <p>i) SANS 164-1: 2016 plugs and socket-outlets to standard sheets 1-1 &amp; 1-2</p> <p>j) SANS 164-3: 2017 plugs and socket-outlets to standard sheets 3-1 &amp; 3-2</p> <p>k) SANS 164-4: 2017 socket-outlets to standard sheets 4.1.2</p> <p>l) KSC 8305: 2011</p> <p>m) SNI 04-3892.1-2006</p> <p>n) IRAM 2073: 2009 / IRAM 2063: 2009</p> <p>o) ABNT 14136: 2012 (corrigenda 3) socket-outlets to figures A.1 to A.6 &amp; A.9 to A.12 and plugs to figures A.7, A.8, A.13 &amp; A.14</p> <p>p) ANSI NEMA WD6: 2002 R2008 1-15 &amp; 5-15 types only</p> <p>q) CEI 23-50; V1, V2, V3, V4</p> <p>r) NCh 2027/1: 2008</p> <p>s) SANS 164-2-1 &amp; 2-2: 2014 (IEC 60906-1 plug type)</p> <p>t) SANS 164-5: 2007/R2012 (2.5A two pole plug type)</p> <p>u) SANS 164-6: 2010 (16A two pole plug type)</p>



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<u>SECTION 3: ELECTRICAL WIRING ACCESSORIES</u> (cont'd)  General requirements	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  Electrical safety	AS/NZS 3100:2017 + A1:2017
Socket-outlet adaptors	Electrical safety	AS/NZS 3122:2015
Plugs and socket-outlets	Electrical safety	AS/NZS 3112: 2017
Portable residual current devices	Electrical safety Limited to devices incorporating BS 1363 plug pins and/or socket outlets	BS 7071:1992 Excluding: Clause 8.9 Clause 8.16
Switches for household and similar fixed electrical installations	Electrical safety Clause 19.2 6A, 10A and 20A ratings only	BS 3676:Part 1:1989, Amds 1 and 2 BS 3676-1:2000 EN 60669-1:2018 IEC 60669-1:2017 Excluding: Clause 26, EMC tests
Electronic switches	Electrical safety	EN 60669-2-1: 2004 +A12: 2010 IEC 60669-2-1:2002 +A1: 2008 +A2:2015 Excluding Clause 18.101, Motor Controlled types Clause 18.102, Motor Controlled Types Clause 19.102, Fluorescent loads Clause 26, EMC Tests
Isolating switches	Electrical safety	EN 60669-2-4:2005 Excluding:- Clause 18.101
Switches and related accessories for use in home and building electronic systems (HBES)	Electrical safety	EN 60669-2-5:2016 IEC 60669-2-5:2013 Excluding: Clause 26 EMC



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<u>SECTION 3: ELECTRICAL WIRING ACCESSORIES (cont'd)</u>  Cooker control units	<u>ELECTRICAL PRODUCT TESTS (cont'd)</u>  Electrical safety	BS 4177:1992, Amds 1 to 4 Excluding: Figure 6 boxes (Fig 7 gauge) Cooker units with BS546 socket-outlets
General requirements for electrical accessories not covered by other British Standards	Electrical safety	BS 5733:2010 +A1:2014 BS 5733:1995, Amd 1
General requirements for electrical accessories	Electrical safety	EN 50075:1990
Junction boxes for use in electrical installations with rated voltages not exceeding 250V	Electrical safety	BS 6220:1983
Socket-outlets incorporating residual current devices	Electrical safety Limited to devices incorporating BS 1363 socket outlets 50 Hz only	BS 7288:2016 Excluding: Type A SRCDs Clause 9.14 (EMC) Clause 9.15.2 BS 7288:1990, Amd 1 Excluding: Clause 8.8, Clause 8.16,
Bayonet lampholders with enhanced safety	Electrical safety	BS 7895:1997, Amd 1 and 2
Boxes and enclosures for electrical accessories  General requirements	Electrical safety	EN 60670-1:2005 + A1 IEC 60670-1:2002 + A1 IEC 60670-1:2015
Connecting boxes and enclosures	Electrical safety	EN 60670-22:2006 IEC 60670-22:2003+A1:2015



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<u>SECTION 3: ELECTRICAL WIRING ACCESSORIES (cont'd)</u>  Floor boxes and enclosures	<u>ELECTRICAL PRODUCT TESTS (cont'd)</u>  Electrical safety	EN 60670-23:2008 Excluding Clause 21
Cord sets	Electrical safety	EN 60799:1998
Bayonet Lampholders	Electrical safety B15d + B22d Lampholder type only	IEC61184:2017 EN 61184:2017 EN 61184:2008, Amd A1(withdrawn) IEC 61184:2008, Amd A1 (withdrawn) EN 61184:1997, Amds A1 and A2 (withdrawn) IEC 61184:1997, Amds A1 and A2(withdrawn)Excluding: Drip proof Lampholders
Cable Reels	Electrical safety	EN 61242:1997+A1:2008 +A2 IEC 61242:1995+A1:2008 +A2
Installation Couplers	Electrical safety	EN 61535: 2019 IEC 61535: 2019





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<u>SECTION 3: ELECTRICAL WIRING ACCESSORIES</u> (cont'd)	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)	
Sound signalling devices	Electrical safety	EN 62080:2009 + A2:2015 Excluding EMC IEC 62080:2001+A1:2008+A2:2015 Excluding EMC
Electrical systems in furniture and educational furniture	Electrical safety	BS 6396: 2008 +A1: 2015
Boxes for flush mounting of electrical accessories	Electrical safety	BS 4662: 2006 +A1: 2009
Connecting devices for low voltage circuits	Electrical safety	EN 60998-1: 2004 IEC 60998-1: 2002
Requirements for connecting devices as separate entities	Electrical safety	EN 60998-2-1: 2004 IEC 60998-2-1: 2002
Connecting devices with screwless-type clamping units	Electrical safety	EN 60998-2-2: 2004 IEC 60998-2-2: 2002
Plugs and socket-outlets	Electrical safety	SASO 2203:2018
Rewireable and non-rewireable 13A fused plugs	Electrical safety	SS 145 Part 1:2010
Switched and unswitched socket-outlets	Electrical safety	SS 145 Part 2:2018 BS 1363-2:2016 +A1: 2018, MOD
Rewireable and non-rewireable 13A fused plugs	Electrical safety	MS 589 Part 1:2018
Switched and Unswitched socket-outlets	Electrical safety	MS 589-2:2018
Safety requirements for Cord Extension Sets	Electrical safety	GSO 2117 2011



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<p><u>SECTION 4: MAINS OPERATED ELECTRONIC EQUIPMENT AND RELATED APPARATUS FOR HOUSEHOLD AND SIMILAR GENERAL USE</u></p> <p>Audio, video and similar electronic apparatus</p>	<p><u>ELECTRICAL PRODUCT TESTS</u></p> <p>Electrical safety</p> <p>Maximum dimension of equipment</p> <p>990 mm x 990 mm x 1000 mm</p>	<p>EN 60065:2014/A11:2017</p> <p>EN 60065:2014 IEC 60065 Ed.8:2014 EN 60065:2002, Amds A1, A2 A11 and A12:2011 IEC 60065:2001, Amd A1 and A2 Excluding: Clause 3.1, Headphone sound pressure tests Clause 6.2, Laser radiation Clause 8.17 and 8.18, Insulated windings wires Clause 14.12, Varistors Clause 18, Mechanical strength of picture tubes/implosion</p>
<p>Audio/video, information and communication technology equipment Part 1:</p>	<p>Safety requirements</p>	<p>IEC 62368-1:2018 EN IEC 62368-1:2020, A11:2020 EN 62368-1:2014, A11:2017 IEC 62368-1:2014</p> <p>Excluding: Clause 5.3.1.5.3 Thermal cycling for insulating compound Clause 10 Radiation measurements Annex G.7 Mains supply cords IEC 60227 test equipment Annex G.7 IC Current limiters Annex G.13.6.2 Full draught oven &amp; scratch test for coated PCB Annex G.15 Pressurized liquid filled components Annex J Insulated winding wires without interleaved insulation Annex M.6.2 &amp; M.8.2 Battery leakage current test &amp; spark test Annex P4 Metallized coatings and adhesives securing parts Annex S.3.2 Fire enclosure diesel fuel oil test Annex U Mechanical Strength of CRT's</p>



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<p><u>SECTION 4: MAINS OPERATED ELECTRONIC EQUIPMENT AND RELATED APPARATUS FOR HOUSEHOLD AND SIMILAR GENERAL USE (cont'd)</u></p> <p>Part 3: Safety aspects for DC power transfer through communication cables and ports</p>	<p><u>ELECTRICAL PRODUCT TESTS (cont'd)</u></p> <p>Electrical safety</p>	<p>IEC 62368-3:2017 EN IEC 62368-3:2020</p>
<p>Methods of Measurement for the power consumption of audio, video and related equipment</p>	<p>Power consumption</p>	<p>EN 62087:2003 IEC 62087:2002</p>
<p><u>SECTION 5: INFORMATION TECHNOLOGY EQUIPMENT</u></p> <p>Data processing equipment. Apparatus for connection to telecommunications networks</p>	<p><u>ELECTRICAL PRODUCT TESTS</u></p> <p>Electrical safety</p>	<p>EN 62949:2017 IEC 62949:2017 EN 41003:2008 (replaced) EN 41003:1998 (withdrawn)</p>



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<p><u>SECTION 5: INFORMATION TECHNOLOGY EQUIPMENT</u> (cont'd)</p> <p>Information technology equipment including electrical business equipment</p>	<p><u>ELECTRICAL PRODUCT TESTS</u> (cont'd)</p> <p>Electrical safety</p>	<p>EN 60950-1:2006, Amd A1, A11, A12 and A2 IEC 60950-1:2005, Amd A1, A2 Excluding: Clause 4.2.8, CRT implosion test Clause 4.3.12, Flammable vapours Clause 4.3.13.3, UV radiation Clause 4.3.13.4, UV radiation Clause 4.3.13.5, Lasers Clause Zx sound pressure</p> <p>EN 60950-1:2001, Amd A11 (withdrawn) IEC 60950-1:2001, Amd A1 AS/NZS 60950-1:2003 Excluding: Clause 4.2.8, CRT implosion test Clause 4.3.12, Flammable vapours Clause 4.3.13.3, UV radiation Clause 4.3.13.4, UV radiation Clause 4.3.13.5, Lasers Annex Y, UV test BS EN 60950:2000, (withdrawn) EN 60950:2000, (withdrawn) IEC 60950:1999, (withdrawn) AS/NZS 60950:2000 Excluding: Clause 4.2.8, CRT implosion test Clause 4.3.12, Flammable vapours Annex A3 High current ignition test</p>
<p>Power consumption of information technology equipment - Measurement methods</p>	<p>Power consumption</p>	<p>EN 62018:2003 IEC 62018:2003</p>



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<p><u>SECTION 6: ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE</u></p> <p>General requirements and equipment for which there is no Part 2 standard</p>	<p><u>ELECTRICAL PRODUCT TESTS</u></p> <p>Electrical safety</p> <p>Voltage tests limited to: ac: 6 kV RMS (max) dc: 50 kV (max)</p>	<p>EN 61010-1:2010, A1:2016 IEC 61010-1:2010 + Amd1:2016 Excluding: Clause 6.8.4 for test voltages above 12 kV ac or dc and 1.2/50 impulse test Clause 12.5.1, Sound level Clause 12.5.2, Ultrasonic pressure Clause 13.2.3, CRT implosion Clause 14.9, overvoltage limiting devices</p> <p>EN 61010-1:2001 (withdrawn) IEC 61010-1:2001 Excluding: Clause 6.8.4 for test voltages above 12 kV ac or dc and 1.2/50 impulse test Clause 12.5.1, Sound level Clause 12.5.2, Ultrasonic pressure Clause 13.2.3, CRT implosion Clause 14.9, overvoltage limiting devices</p>
Laboratory equipment for the heating of materials	Electrical safety	<p>EN 61010-2-010:2014 IEC 61010-2-010:2014 EN 61010-2-010:2003(Withdrawn) IEC 61010-2-010:2003 Excluding: Clause 5.4.4.101, Steam Sterilisation Clause 12.</p>
Testing and measuring circuits	Electrical safety	<p>EN 61010-2-030:2010 IEC 61010-2-030:2010 Excluding:- Clause 12 Clause 14.101, impulse test &gt; 7kV</p>



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<p><u>SECTION 6: ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE (cont'd)</u></p> <p>Hand held probe assemblies for electrical measurement and test</p>	<p><u>ELECTRICAL PRODUCT TESTS (cont'd)</u></p> <p>Electrical safety</p>	<p>EN 61010-031:2015 IEC 61010-031:2015 EN 61010-031:2002, Amd A1 IEC 61010-031:2002, Amd A1 Excluding: Clause 6.7.4.3 Clause 12 Laser sources, sonic and ultrasonic pressure. Clause 13.101, Arc explosion</p>
<p>Hand held current clamps for electrical measurement and test</p>	<p>Electrical safety</p>	<p>EN 61010-2-032:2012 IEC 61010-2-032:2012 EN 61010-2-032:2002 (withdrawn) IEC 61010-2-032:2002 Excluding: Clause 13.101, Arc explosion</p>
<p>In vitro diagnostic (IVD) medical equipment</p>	<p>Electrical safety</p>	<p>EN 61010-2-101:2017 IEC 61010-2-101:2015</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p><u>SECTION 7: TRANSFORMERS</u></p> <p>Safety of power transformers, power supply units and similar</p> <p>General requirements and tests</p>	<p><u>ELECTRICAL PRODUCT TESTS</u></p> <p>Electrical safety</p>	<p>EN 61558-1:2005, Amd A1:2009 IEC 61558-1:2005, Amd A1:2009</p> <p>EN IEC 61558-1:2019 IEC 61558-1 :2017 Excluding: Clause 14.1.2 /15.1.2</p> <p>Clause 14.3, Accelerated ageing</p> <p>Clause 16.5.1 (exclude transformers for use in vehicles and railway applications)</p> <p>Clause 19.12.3. c), 19.12.3.1, 18.3.1, 19.12.3.c) (FIW wire)</p> <p>Clause 19.9, Oxygen bomb test Annex K, Insulated winding Annex R Impulse test Annex U, Life expectancy Annex W, PCB's EN 61558-1:1997 (withdrawn) IEC 61558-1:1997 Excluding: Clause 19.12.3, Annex k</p>
Separating transformers for general use	Electrical safety	EN 61558-2-1:2007 IEC 61558-2-1:2007
Control transformers	Electrical safety	EN 61558-2-2:2007 IEC 61558-2-2:2007
Isolating transformers and power supply units incorporating isolating transformers	Electrical safety	EN 61558-2-4:2009 IEC 61558-2-4:2009 EN 61558-2-4:1997 (withdrawn) IEC 61558-2-4:1997
Power supply units for shavers and shaver supply units	Electrical safety	EN 61558-2-5:2010 IEC 61558-2-5:2010 EN 61558-2-5:1997 (withdrawn) IEC 61558-2-5:1997



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<u>SECTION 7: TRANSFORMERS</u> (cont'd)  Safety isolating transformers and power supply units incorporating isolating transformers	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  Electrical safety	EN 61558-2-6:2009 IEC 61558-2-6:2009 EN 61558-2-6:1997 (withdrawn) IEC 61558-2-6:1997
Transformers and power supply units for toys	Electrical safety	EN 61558-2-7:2007 IEC 61558-2-7:2007 EN 61558-2-7:1997, Amd A11 (withdrawn) IEC 61558-2-7:1997
Transformers and power supply units for bells and chimes	Electrical safety	EN 61558-2-8:2010 IEC 61558-2-8:2010 EN 61558-2-8:1999 (withdrawn) IEC 61558-2-8:1998
Auto-Transformers and power supply units incorporating isolating transformers	Electrical safety	EN 61558-2-13:2009 IEC 61558-2-13:2009 EN 61558-2-13:2000 (withdrawn) IEC 61558-2-13:2000
Transformers for switch mode power supplies	Electrical safety	EN 61558-2-16:2009 Amd A1 IEC 61558-2-16:2009 Amd A1
<u>SECTION 8: CONTROLS</u>  Timers and time switches	<u>ELECTRICAL PRODUCT TESTS</u>  Electrical safety	EN.60730-2-7:2010 IEC 60730-2-7:2008 EN 60730-2-7:1992, Amds A11, A12, A13 and A14 (withdrawn) IEC 60730-2-7:1992, Amd A1
<u>SECTION 9: MISCELLANEOUS EQUIPMENT</u>  CTI and PTI of solid insulating materials	<u>ELECTRICAL PRODUCT TESTS</u>  Electrical safety	EN 60112:2003, Amd A1:2009 IEC 60112:2003 +AMD1:2009





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<u>SECTION 10: ENCLOSURES FOR ELECTRICAL EQUIPMENT</u>  Enclosures for Electrical Equipment	<u>ELECTRICAL PRODUCT TESTS</u>  IMPACT PROTECTION TESTS  IK codes	EN 62262:2002  IEC 62262:2002
	INGRESS PROTECTION TESTS  IP1X Protected against solid objects greater than 50 mm diameter  IP2X Protected against solid objects greater than 12 mm diameter  IP3X Protected against solid objects greater than 2.5 mm diameter  IP4X Protected against solid objects greater than 1.0 mm diameter  IP5X Dust Protected Excluding: Objects greater than 1800 x 570 x 570 mm  IP6X Dust Protected Excluding: Objects greater than 1800 x 570 x 570 mm  IPX1 Protected against dripping water  IPX2 Protected against dripping water when tilted up to 15°	EN 60529:1991 + A1:2000 + A2:2013 IEC 60529:1989 + A1:1999 + A2:2013 Excluding: Clause 14.2.9 IPX9 test



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<u>SECTION 10: ENCLOSURES FOR ELECTRICAL EQUIPMENT</u> (cont'd)	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  INGRESS PROTECTION TESTS (cont'd)  IPX3 Protected against spraying water  IPX4 Protected against splashing water  IPX5 Protected against water jets  IPX6 Protected against heavy seas  IPX7 Protected against the effects of immersion Excluding: Objects greater than 1200 (h) x 850 (w) x 1000 (l) mm  IPX8 Protected against the effects of immersion Excluding: Objects greater than 1200 (h) x 850 (w) x 1000 (l) mm. Depth greater than 1m	EN 60529:1991 + A1 + A2 IEC 60529:1989 + A1 + A2 Excluding: Clause 14.2.9 IPX9 test
SECTION 11: Performance Tests  Household electrical appliances - Measurement of standby power.	<u>Performance Testing</u>  Power consumption	IEC.62301:2011  EN 62301:2005 IEC 62301:2005 CAN/CSA C62301:07
Household electrical appliances - Measurement of standby power (aligned to Annex II of EC regulation No. 1275/2008)	Power consumption	EN.50564:2011



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SECTION 11: Performance Tests (cont'd)  Televisions - Measurement of standby power (aligned to Annex II of EC regulation No. 642/2009, as amended by EC regulation No. 801/2013. Also as aligned to Annex VII of delegated EC regulation No. 1062/2010, and as aligned to Annex III of EC regulation No 617/2013)	<u>Performance Testing</u> (cont'd)  Power consumption	EN.62301:2005
External Power Supplies (aligned to Annex II of EC regulation No. 278/2009)	Performance Tests	EN.50563:2011 + A1
Methods of Measurement for the power consumption of audio, video and related equipment	Power consumption	EN 62087:2003 IEC 62087:2002
Power consumption of information technology equipment - Measurement methods	Power consumption	EN 62018:2003 IEC 62018:2003
External Power Supplies	Performance Tests	CAN/CSA C381.1-08
ENERGY STAR  Audio/Video	Performance Tests	Energy Star Test Method for Audio/ Video, Aug 2010
Computers  Computers – Measurement of energy consumption	Performance Tests  Power consumption	Energy Star Test Method for Computers, version 6.1 (2014)  EN.62623:2013 IEC.62623:2012



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SECTION 11: Performance Tests (cont'd)  Universal Serial Bus Interfaces for data and power	<u>Performance Testing</u> (cont'd)  Performance Tests	  BS EN 62680-1-1:2015 (Limited to DCPs only)
External Power Supplies          Unmetered supply equipment	Performance Tests    Performance Tests   Power consumption	EPRI Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies Revised August 11, 2004  International Efficiency Marking Protocol, Oct 2008  ELEXON unmetered supplies Section 3: Equipment tests (version 4, 2013) ELEXON Operational Information Document Version 22.0
END		