

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p><b>Accredited to ISO/IEC 17025:2005</b></p>	<h3>Nemko Ltd</h3> <p><b>Issue No: 043    Issue date: 23 April 2012</b></p>	
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### 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.		
<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>IEC 60335-1:2010 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</p> <p>EN 60335-1:2002, Amds A1, A2, A11 - A15 IEC 60335-1:2001, Amd A1 and A2 (withdrawn) Excluding: Clause 14, Transient overvoltages Clause 19.11.4, EMC test Clause 22.32, Oxygen bomb test Clause 22.46, software class B and C Annex F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 Excluding:- Tests on motorised cleaning heads</p>	<p>Electrical safety</p>	<p>EN 60335-2-2:2010 IEC 60335-2-2:2009 Excluding: Clause 22.Z102</p> <p>EN 60335-2-2:2003, Amds A1 A2 and A11 IEC 60335-2-2:2002, Amds A1 and A2 (withdrawn)</p>
<p>Electric irons</p>	<p>Electrical safety</p>	<p>EN 60335-2-3:2002, Amd 1, A2 and A11 IEC 60335-2-3:2002, Amd A1 and A2</p>



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<u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (cont'd)</u>  Cooking ranges, cooking tables, ovens and similar appliances for household use Excluding:- Pyrolytic ovens	<u>ELECTRICAL PRODUCT TESTS (cont'd)</u>  Electrical safety	EN 60335-2-6:2003, Amds A1, A2 and A11 IEC 60335-2-6:2003, Amds A1 and A2
Shavers, hair clippers and similar appliances	Electrical Safety	EN 60335-2-8:2003, Amds A1 and A2 IEC 60335-2-8:2003, Amds A1 and A2
Toasters, grills, roasters and similar appliances	Electrical Safety	IEC 60335-2-9:2008 EN 60335-2-9:2003 Amds A1, A2 A12 and A13 IEC 60335-2-9:2002 Amds A1 and A2 Excluding: Clause 31, Salt mist test
Plate warmers and similar appliances	Electrical Safety	EN 60335-2-12:2003, Amd A1 IEC 60335-2-12:2002, Amd A1
Deep fat fryer, electric frying pans and similar appliances	Electrical safety	EN 60335-2-13:2010 IEC 60335-13:2009 EN 60335-2-13:2003, Amds A1 and A2 IEC 60335-2-13:2002, Amds A1 and 2 (withdrawn)
Kitchen machines	Electrical safety	EN 60335-2-14:2006, Amd A1 IEC 60335-2-14:2006, Amd A1
Appliances for heating liquids	Electrical safety	EN 60335-2-15:2002, Amds A1 and A2 IEC 60335-2-15:2002, Amds A1 and A2



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<u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (cont'd)</u>  Storage water heaters	<u>ELECTRICAL PRODUCT TESTS (cont'd)</u>  Electrical Safety	EN 60335-2-21:2003, Amds A1 and A2 IEC 60335-2-21:2002, Amds A1 and A2
Appliances for skin or hair care Including:-	Electrical safety	EN 60335-2-23:2003, Amds A1, A2 and A11 IEC 60335-2-23:2003, Amds A1 and A2
Refrigerators, food freezers and ice makers	Electrical safety	EN 60335-2-24:2010 IEC 60335-2-24:2010 Excluding: Flammable refrigerants Annex DD EN 60335-2-24:2003, Amds A1, A2 A11 and A12 IEC 60335-2-24:2002, Amds A1 and A2 (withdrawn) Excluding: Flammable refrigerants
Microwave ovens	Electrical safety	IEC 60335-2-25:2010 EN 60335-2-25:2002, Amds A1, A2 and A11 IEC 60335-2-25:2002, Amds A1 and A2
Ultra-violet and infra-red radiation skin treatment appliances	Electrical safety	EN 60335-2-27:2010 IEC 60335-2-27:2009 Excluding: Clause 22.112 Clause 32.101 Clause 32.102 EN 60335-2-27:2003, Amds A1 and A2 IEC 60335-2-27:2002, Amds A1 and A2 (withdrawn) Excluding: Clause 22.112 Clause 32.101 Clause 32.102



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<u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES</u> (cont'd)	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)	
Sewing machines	Electrical safety	EN 60335-2-28:2003, Amd A1 IEC 60335-2-28:2002, Amd A1
Battery chargers	Electrical safety	EN 60335-2-29:2004, Amds 1 and 2 IEC 60335-2-29:2002, Amds A1 and A2
Room heaters	Electrical safety	EN 60335-2-30:2009 IEC 60335-2-30:2009 EN 60335-2-30:2003, Amds A1 and A2 IEC 60335-2-30:2002, Amds A1 and A2 (withdrawn)
Massage appliances Excluding: Massage belts	Electrical safety	EN 60335-2-32:2003, Amd A1 IEC 60335-2-32:2003, Amd A1
Instantaneous water heaters	Electrical safety	EN 60335-2-35:2002, Amd A1 IEC 60335-2-35:2002, Amds A1 and A2
Pumps	Electrical safety	EN 60335-2-41:2003, Amds A1 and A2 IEC 60335-2-41:2002, Amds A1 and A2
Portable heating tools and similar appliances	Electrical safety	EN 60335-2-45:2002, Amd A1 IEC 60335-2-45:2002, Amd A1
Commercial electric grillers and toasters	Electrical safety	EN 60335-2-48:2003, Amd A1 IEC 60335-2-48:2002, Amd A1



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<u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES</u> (cont'd)  Oral hygiene appliances connected to the mains supply	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  Electrical safety	EN 60335-2-52:2003, Amds A1 and A11 IEC 60335-2-52:2002, Amd A1 Excluding Clause 22.Z103 corrosion test
Surface-cleaning appliances employing liquids	Electrical safety	EN 60335-2-54:2008 IEC 60335-2-54:2008 Excluding: Current carrying hoses Clause 21.101 to 21.105
Projectors	Electrical safety	EN 60335-2-56:2003, Amd A1 IEC 60335-2-56:2002, Amd A1
Insect killers	Electrical safety	EN 60335-2-59:2003, Amds 1 and 2 IEC 60335-2-59:2002, Amds A1 and A2 Excluding:- Clause 31, Salt mist test Clause 32, UV radiation
Whirlpool baths	Electrical safety	EN 60335-2-60:2003, Amds A1, A2, A11 and A12 IEC 60335-2-60:2002, Amds A1 and A2
Air-cleaning appliances	Electrical safety	EN 60335-2-65:2003, Amd A1 IEC 60335-2-65:2002, Amd A1 Excluding: Clause 32, Ozone test
Fixed immersion heaters	Electrical safety	EN 60335-2-73:2003, Amds A1 and A2 IEC 60335-2-73:2002, Amds A1 and A2



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<u>SECTION 1: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES</u> (cont'd)  Dispensing appliances for food, drink and packaged consumer products	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  Electrical safety	EN 60335-2-75:2004, Amds A1, A2 A11 and A12 IEC 60335-2-75:2002, Amds A1 and A2
Fans	Electrical safety	EN 60335-2-80:2003, Amds A1 and A2 IEC 60335-2-80:2002, Amds A1 and A2 Excluding:- Clause 20.101, hardness test
Service machines and amusement machines	Electrical safety	EN 60335-2-82:2003, Amd A1 IEC 60335-2-82:2002, Amd A1 Excluding: Clause 31, corrosion test (salt mist)
Commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor	Electrical safety	EN 60335-2-89:2010 IEC 60335-2-89:2010 Excluding: Flammable refrigerants
Commercial microwave ovens	Electrical safety	EN 60335-2-90:2006, Amd A1 IEC 60335-2-90:2006, Amd A1 Excluding: Annex EE. on board ship ovens Conveyor belt microwave ovens
Humidifiers	Electrical safety	EN 60335-2-98:2003, Amds A1 and A2 IEC 60335-2-98:2002, Amds A1 and A2
Vaporizers	Electrical safety	EN 60335-2-101:2002, Amd A1 IEC 60335-2-101:2002, Amd A1 Excluding: Clause 32, Toxicity



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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



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<u>SECTION 2: LUMINAIRES</u>	<u>ELECTRICAL PRODUCT TESTS</u>	
Luminaires	Electrical safety	EN 60598-1:2008, Amd A11 IEC 60598-1:2008
General Requirements	Electrical, Mechanical and Thermal	EN 60598-1:2004, Amd A1 IEC 60598-1:2003, Amd A1 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 60598-2-1:1979, Amd A1 BS 4533:Part 102:Section 102.1: 1990
Recessed luminaires	Electrical safety	EN 60598-2-2:1996, Amd A1 IEC 60598-2-2:1996, Amd A1
Portable luminaires	Electrical safety	EN 60598-2-4:1997 IEC 60598-2-4:1997
Floodlights	Electrical safety	EN 60598-2-5:1998 IEC 60598-2-5:1998
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 60598-2-8:1997, Amd 1 and A2 IEC 60598-2-8:1996, Amds A1 and A2



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<u>SECTION 2: LUMINAIRES</u> (cont'd)	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)	
Portable luminaires for children	Electrical safety	EN 60598-2-10:2003 IEC 60598-2-10:2003 Excluding: Clause 10.15.2, Flame test
Aquarium luminaires	Electrical safety	EN 60598-2-11:2005 IEC 60598-2-11:2005
Mains socket-outlet mounted nightlights	Electrical safety	EN 60598-2-12:2006 IEC 60598-2-12:2006
Ground recessed luminaires	Electrical safety	EN 60598-2-13:2006, IEC 60598-2-13:2006
Luminaires for stage lighting, TV, Film and Photographic Studios (outdoor and indoor)	Electrical safety	EN 60598-2-17:1989, Amd A2 IEC 60598-2-17:1984, Amds A1 and A2 BS 4533:Part 102:Section 102.17: 1990, Amds 1 to 3
Lighting chains	Electrical safety	EN 60598-2-20:2010 IEC 60598-2-20:2010 EN 60598-2-20:1997, Amds A1 and A2 IEC 60598-2-20:1996, Amds A1 and A2
Self-ballasted lamps for general lighting services	Electrical safety	EN 60968:2000, Amds A1 and A2 IEC 60968:1988, Amds A1 and A2
Lamp Controlgear General and Safety Requirements	Electrical safety	EN 61347-1:2008, Amd A1 IEC 61347-1:2007, Amd 1 EN 61347-1:2001 IEC 61347-1:2000



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<u>SECTION 2: LUMINAIRES</u> (cont'd)  DC and AC supplied electronic step down converters for filament lamps	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  Electrical safety	EN 61347-2-2:2001, Amds A1 and A2 IEC 61347-2-2:2000, Amds A1 and A2
AC electronic ballasts	Electrical safety	EN 61347-2-3:2011 IEC 61347-2-3:2011 EN 61347-2-3:2001, Amds A1 and A2 IEC 61347-2-3:2000, Amds A1 and A2
Miscellaneous electronic circuits used with luminaires	Electrical safety	EN 61347-2-11:2001 IEC 61347-2-11:2001
DC or AC supplied electronic controlgear for LED modules	Electrical safety	EN 61347-2-13:2006 IEC 61347-2-13:2006
Led Modules for general lighting. Safety specifications	Electrical safety	EN 62031:2008 IEC 62031:2008



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<u>SECTION 3: ELECTRICAL WIRING ACCESSORIES</u>  13A rewirable and non-rewirable plugs	<u>ELECTRICAL PRODUCT TESTS</u>  Electrical safety	BS 1363:Part 1:1995, Amds 1 to 3 Excluding: Annex F, Impulse Voltage Test IS 401:1997
13A switched and unswitched socket-outlets	Electrical safety	BS 1363:Part 2:1995, Amds 1 to 3 Excluding: Annex G, Impulse Voltage Test
13A adaptors	Electrical safety	BS 1363:Part 3:1995, Amds 1 to 3, Corrig Excluding: Annex G, Impulse Voltage Test
13A fused connection units switched and unswitched	Electrical safety	BS 1363:Part 4:1995, Amds 1 to 3 Excluding: Annex F, Impulse Voltage Test
13A fused conversion plugs	Electrical safety	BS 1363:Part 5:2008 Excluding: Annex F, Impulse Voltage Test



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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</p>	<p><u>ELECTRICAL PRODUCT TESTS</u> (cont'd)</p> <p>Electrical safety</p>	<p>IEC 60884-1:2006, Amd 1 Limited to:-</p> <ul style="list-style-type: none"> <li>a) CEE 7 10/16A plugs and socket-outlets to standard sheets I, II, III, IV, V, VI, XVI &amp; XVII</li> <li>b) Danish socket-outlets to DS 107-2-D1: 4<sup>th</sup> Edition Figures D2, D7A, D7B, D7D, D11, and D18</li> <li>c) Devices incorporating BS 1363 plug pins and/or socket outlets</li> <li>d) SEV 1011: 2009 plug and socket type 11 and plug only type 12</li> <li>e) IS 1293: 2005</li> <li>f) SS 428 08 43 ed 2 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</li> <li>g) NEK 502: 2006 ed 2 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</li> <li>h) SFS 5610: 2004 + A1:2008 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</li> <li>i) SANS 164-1: 2007 plugs and socket-outlets to standard sheets 1-1 &amp; 1-2</li> <li>j) SANS 164-3: 2007 plugs and socket-outlets to standard sheets 3-1 &amp; 3-2</li> <li>k) SANS 164-4: 2007 plugs and socket-outlets to standard sheets 4.1.2</li> </ul>



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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:-</p> <ul style="list-style-type: none"> <li>a) CEE 7 10/16A socket-outlets to standard sheets I, II, III, IV, V, VI, XVI &amp; XVII</li> <li>b) Danish socket-outlets to DS 107-2-D1: 4<sup>th</sup> Edition Figures D2, D7A, D7B, D7D, D11, and D18</li> <li>c) Devices incorporating BS 1363 socket outlets</li> <li>d) SEV 1011: 2009 socket type 11 and plug only type 12</li> <li>e) IS 1293: 2005</li> <li>f) SS 428 08 43 ed 2 socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</li> <li>g) NEK 502: 2006 ed 2 socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</li> <li>h) SFS 5610: 2004 + A1:2008 socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII</li> <li>i) SANS 164-1: 2007 socket-outlets to standard sheets 1-1 &amp; 1-2</li> <li>j) SANS 164-3: 2007 socket-outlets to standard sheets 3-1 &amp; 3-2</li> <li>k) SANS 164-4: 2007 socket-outlets to standard sheets 4.1.2</li> </ul>



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<p><u>SECTION 3: ELECTRICAL WIRING ACCESSORIES</u> (cont'd)</p> <p>Adaptors</p>	<p><u>ELECTRICAL PRODUCT TESTS</u> (cont'd)</p> <p>Electrical safety</p>	<p>IEC 60884-2-5:1995 Limited to:- a) CEE 7 10/16A plugs and socket-outlets to standard sheets I, II, III, IV, V, VI, 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 plug pins and/or socket outlets d) SEV 1011: 2009 plug and socket type 11 and plug only type 12 e) IS 1293: 2005 f) SS 428 08 43 ed 2 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII g) NEK 502: 2006 ed 2 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII h) SFS 5610: 2004 + A1:2008 plugs and socket-outlets to standard sheets I, II, III, IV, VII, XVI &amp; XVII i) SANS 164-1: 2007 plugs and socket-outlets to standard sheets 1-1 &amp; 1-2 j) SANS 164-3: 2007 plugs and socket-outlets to standard sheets 3-1 &amp; 3-2 k) SANS 164-4: 2007 plugs and socket-outlets to standard sheets 4.1.2</p>
<p>Switches for household and similar fixed electrical installations</p>	<p>Electrical safety Clause 19.2 6A, 10A and 20A ratings only</p>	<p>BS 3676:Part 1:1989, Amds 1 and 2 BS 3676-1:2000 EN 60669-1:1999, Amd A1 and A12 IEC 60669-1:1998, Amd A1 Excluding:- Clause 26, EMC tests</p>



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<u>SECTION 3: ELECTRICAL WIRING ACCESSORIES</u> (cont'd)  Electronic switches	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  Electrical safety	EN 60669-2-1:2004 IEC 60669-2-1:2002 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
Cooker control units Excluding: Cooker units with BS546 socket-outlets	Electrical safety	BS 4177:1992, Amds 1 to 4 Excluding: Figure 6 boxes (Fig 7 gauge)
General requirements for electrical accessories not covered by other British Standards	Electrical safety	BS 5733:2010 BS 5733:1995, Amd 1
Junction boxes for use in electrical installations with rated voltages not exceeding 250V	Electrical safety	BS 6220:1983
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
Socket-outlets incorporating residual current devices	Electrical safety Limited to devices incorporating BS 1363 socket outlets 50 Hz only	BS 7288:1990, Amd 1 Excluding: Clause 8.8 Clause 8.16



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<u>SECTION 3: ELECTRICAL WIRING ACCESSORIES</u> (cont'd)  Bayonet lampholders with enhanced safety	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  Electrical safety	BS 7895:1997, Amd 1 and 2
Boxes and enclosures for electrical accessories  General requirements	Electrical safety	EN 60670-1:2005 IEC 60670-1:2002
Connecting boxes and enclosures	Electrical safety	EN 60670-22:2006 IEC 60670-22:2003
Floor boxes and enclosures	Electrical safety	EN 60670-23:2008 Excluding Clause 21
Cord sets	Electrical safety	EN 60799:1998
Bayonet Lampholders Excluding: Drip proof Lampholders	Electrical safety B15d + B22d Lampholder type only	EN 61184:2008, Amd A1 IEC 61184:2008, Amd A1 EN 61184:1997, Amds A1 and A2 IEC 61184:1997, Amds A1 and A2
Cable Reels	Electrical safety	EN 61242:1997, Amds A11 and A12 IEC 61242:1995



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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 60065:2002, Amds A1, A2 and A11 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>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>



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<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 41003:2008 EN 41003:1998</p>
<p>Information technology equipment including electrical business equipment</p>	<p>Electrical safety</p>	<p>EN 60950-1:2006, Amd A1, A11 and A12 IEC 60950-1:2005, Amd A1 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 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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<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 IEC EN 61010-1:2010 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 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 61010-2-010:2003 IEC 61010-2-010:2003 Excluding: Clause 5.4.4.101, Steam sterilisation</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</u> (cont'd)</p> <p>Hand held probe assemblies for electrical measurement and test</p>	<p><u>ELECTRICAL PRODUCT TESTS</u> (cont'd)</p> <p>Electrical safety</p>	<p>EN 61010-031:2002, Amd A1 IEC 61010-031:2002, Amd A1 Excluding: Clause 6.7.4.3 Clause 13.101, Arc explosion</p>
<p>Hand held current clamps for electrical measurement and test</p>	<p>Electrical safety</p>	<p>EN 61010-2-032:2002 IEC 61010-2-032:2002 Excluding: Clause 13.101, Arc explosion</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 IEC 61558-1:2005, Amd A1 Excluding: Clause 14.3, Accelerated ageing 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 IEC 61558-1:1997 (withdrawn) 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 IEC 61558-2-4:1997 (withdrawn)
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 IEC 61558-2-5:1997 (withdrawn)
Safety isolating transformers and power supply units incorporating isolating transformers	Electrical safety	EN 61558-2-6:2009 IEC 61558-2-6:2009 EN 61558-2-6:1997 IEC 61558-2-6:1997 (withdrawn)



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<u>SECTION 7: TRANSFORMERS</u> (cont'd)  Transformers and power supply units for toys	<u>ELECTRICAL PRODUCT TESTS</u> (cont'd)  Electrical safety	EN 61558-2-7:2007 IEC 61558-2-7:2007 EN 61558-2-7:1997, Amd A11 IEC 61558-2-7:1997 (withdrawn)
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 IEC 61558-2-8:1998 (withdrawn)
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 IEC 61558-2-13:2000 (withdrawn)
Transformers for switch mode power supplies	Electrical safety	EN 61558-2-16:2009 IEC 61558-2-16:2009



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<p><u>SECTION 8: CONTROLS</u></p> <p>Automatic controls for household and similar use</p> <p>General requirements</p>	<p><u>ELECTRICAL PRODUCT TESTS</u></p> <p>Electrical safety</p>	<p>IEC 60730-1:2010</p> <p>Excluding:- Software of Class B and C Clause 23 and 26 EMC tests Annex D EN 60730-1:2000, Amd A1, A2, A11, A12, A13, A14, A15, and A16 IEC 60730-1:1999, Amd A1 and A2</p> <p>Excluding:- Software of Class B and C Clause 23 and 26 EMC tests</p>
<p>Timers and time switches</p>	<p>Electrical safety</p>	<p>EN.60730-2-7:2010 IEC 60730-2-7:2008 EN 60730-2-7:1992, Amds A11, A12, A13 and A14 IEC 60730-2-7:1992, Amd A1</p>
<p><u>SECTION 9: MISCELLANEOUS EQUIPMENT</u></p> <p>CTI and PTI of solid insulating materials</p>	<p><u>ELECTRICAL PRODUCT TESTS</u></p> <p>Electrical safety</p>	<p>EN 60112:2003, Amd A1 IEC 60112:2009</p>



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<p><u>SECTION 10: ENCLOSURES FOR ELECTRICAL EQUIPMENT</u></p> <p>Enclosures for Electrical Equipment</p>	<p><u>ELECTRICAL PRODUCT TESTS</u></p> <p>IMPACT PROTECTION TESTS IK codes</p>	<p>EN 62262:2002</p> <p>IEC 62262:2002</p>
	<p>INGRESS PROTECTION TESTS</p> <p>IP1X Protected against solid objects greater than 50 mm diameter</p> <p>IP2X Protected against solid objects greater than 12 mm diameter</p> <p>IP3X Protected against solid objects greater than 2.5 mm diameter</p> <p>IP4X Protected against solid objects greater than 1.0 mm diameter</p> <p>IP5X Dust Protected Excluding: Objects greater than 570 x 570 x 570 mm</p> <p>IP6X Dust Protected Excluding: Objects greater than 570 x 570 x 570 mm</p> <p>IPX1 Protected against dripping water</p> <p>IPX2 Protected against dripping water when tilted up to 15°</p> <p>IPX3 Protected against spraying water</p>	<p>EN 60529:1991 + A1</p> <p>IEC 60529:1989 + A1</p>



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<p><u>SECTION 10: ENCLOSURES FOR ELECTRICAL EQUIPMENT</u> (cont.)</p>	<p><u>ELECTRICAL PRODUCT TESTS</u> (cont.)</p> <p>IPX4 Protected against splashing water</p> <p>IPX5 Protected against water jets</p> <p>IPX6 Protected against heavy seas</p> <p>IPX7 Protected against the effects of immersion Excluding:   Objects greater than 1200 (h) x 850 (w) x 1000 (l) mm</p> <p>IPX8 Protected against the effects of immersion Excluding:   Objects greater than 400 (h) x 850 (w) x 1000 (l) mm.   Depth greater than 1m</p>	



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SECTION 11: Performance Tests  Household electrical appliances - Measurement of standby power.	<u>Performance Testing</u>  Power consumption	EN 62301:2005 IEC 62301:2005 CAN/CSA C62301:07
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	Performance Tests	Energy Star Test Method for Computers, Aug 2010
External Power Supplies	Performance Tests  Performance Tests	<a href="#">EPRI Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies Revised August 11, 2004</a>  International Efficiency Marking Protocol, Oct 2008  EXELON unmetered supplies Section 3: Equipment tests (2011)
END		