

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 1116 Accredited to ISO/IEC 17025:2005	<b>SGS United Kingdom Limited</b>	
	Issue No: 049    Issue date: 05 July 2016	
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Where the BS EN or EN standards have exact equivalents in EN or IEC Standards, those EN or IEC standards are also included in the accreditation.		



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<b>SECTION 1: RADIO TESTING</b>	<b>1 Radio Transmitter and Receiver Testing</b>	
Land Mobile Radio Equipment Mobile Stations	2.1 Output Power: up to 100 W (<1 GHz) up to 1 W (<18 GHz)  2.2 Frequency Range: 9 kHz to 18 GHz  2.3 Permitted frequency range of modulation bandwidth  2.4 Spurious Emissions: 9 kHz to 26 GHz  2.5 Effective radiated H-field, carrier current and radiated power  2.6 Frequency stability under low-voltage conditions	ETSI EN 300 220-1, V2.1.1 Excluding: Clause 8.5 Clause 9.2 Clause 9.3 Clause 9.4 ETSI EN 300 220-1, V1.3.1, (withdrawn) ETSI EN 300 220-2 V2.1.2 ETSI EN 300 220-3, V1.1.1 ETSI EN 300 330, V1.2.2 ETSI EN 300 330-1, V1.3.1 ETSI EN 300 330-2 V1.3.1 ETSI EN 300 330-2, V1.1.1 (withdrawn) ETSI EN 301 511, V 9.0.2* ETSI EN 301 908-1, V3.2.1* FCC CFR 47:Part 18  FCC CFR 47:Part 24* ANSI C63.4:2003 FCC OST MP-5:1986 3GPP TS 51.010-1*  * spurious emissions only
	2.7 RF Conducted and Radiated Power output measurements.	ANSI/TIA 603C:2004 ANSI C63.4:2003 ANSI C63.4:2009 ANSI C63.10:2009 FCC 47 CFR Parts 2, 15, 18, 20, 22, 24, 25 & 27
	2.8 Occupied Bandwidth	ANSI/TIA 603C:2004 ANSI C63.4:2003 ANSI C63.4:2009 ANSI C63.10:2009 FCC 47 CFR Parts 2, 15, 18, 20, 22, 24, 25 & 27



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<b>SECTION 1: RADIO TESTING</b>	<b>1 Radio Transmitter and Receiver Testing</b>	
	2.9 Spurious Emissions at Antenna Terminals	ANSI/TIA 603C:2004 ANSI C63.4:2003 ANSI C63.4:2009 ANSI C63.10:2009 FCC 47 CFR Parts 2, 15, 18, 20, 22, 24, 25 & 27
	2.10 Field Strength Measurements	ANSI/TIA 603C:2004 ANSI C63.4:2003 ANSI C63.4:2009 ANSI C63.10:2009 FCC 47 CFR Parts 2, 15, 18, 20, 22, 24, 25 & 27
	2.11 Modulation Characteristics	ANSI/TIA 603C:2004 FCC 47 CFR Parts 2, 15, 18, 20, 22, 24, 25 & 27
	2.12 Frequency Stability	ANSI/TIA 603C:2004 ANSI C63.4:2003 ANSI C63.4:2009 ANSI C63.10:2009 FCC 47 CFR Parts 2, 15, 18, 20, 22, 24, 25 & 27
	2.13 Line Conducted Emissions	ANSI C63.4:2003 ANSI C63.4:2009 ANSI C63.10:2009
	2.14 Power Density Measurements	ANSI C63.4:2003 ANSI C63.4:2009 ANSI C63.10:2009



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<b>SECTION 2: EMC TESTING</b>  Aerospace Equipment Circuit Breakers/Switches Coatings, Metallic Composite Materials Computers and Peripherals Domestic Appliances: Electrical Electrical/Electronic Products Electrical Cables Electro-mechanical Devices Enclosures for Electrical Equipment Fans Fire Fighting and Detection Equipment Generators, Electrical Instruments: Indicating/Recording Insulating Materials: Electrical Lamps: Electrical Luminaires Magnetic Materials Marine Equipment Measuring Equipment Medical Equipment Micro-electronic Circuits and Components Motors, Electrical Optical and Photometric  Equipment Plugs and Sockets: Electrical  Power Supplies: Electrical Radio and TV Equipment Security Devices and Alarms Telecomms Equipment Toys	<b>2 EMC Tests</b>  <b>2.1 Emissions</b>  2.1.1 Conducted Emissions from supply and signal/control lines: 9 kHz to 30 MHz	EN 55011:2009+A1:2010 EN 55011:2007, Amd A2 EN 55011:1998, Amd A1 and A2 EN 55013:1990, (withdrawn) EN 55014-1:2006 + A1:2009 EN 55014-1:2000, Amd A1 and A2 EN 55014-1:1993, (withdrawn) EN 55014:1987, Amd A2, (withdrawn) EN 55015:2006, Amd A1 EN 55015:2006 + A1:2007 + A2:2009 EN 55015:2000, Amd A1 and A2 EN 55015:1996, (withdrawn) EN 55022:1998, Amd A1 and A2 EN 55022:2006 + A1:2007 Excluding:- ISN methods on telecoms ports EN 55022:1994, (withdrawn) EN 55022:1987, (withdrawn) CISPR 14:1985, Amd A2, (withdrawn) CISPR 22:1993, (withdrawn) VDE 0871:1978/85 VDE 0875:Parts 1, 2 and 3:1988 FCC CFR 47 Part 11 FCC CFR 47:Parts 15 and 18 ANSI C63.4:2003 FCC OST MP-5:1986 EN 55016-2-1:2009+A1:2011
	2.1.2 Radiated Emissions  E-field: 30 MHz to 1 GHz E-field: 1 GHz to 6 GHz H-field: 9 kHz to 30 MHz	BS 6527:1988, (withdrawn) EN 55011:2009+A1:2010 EN 55011:2007, Amd A2 EN 55011:1998, Amd A1 and A2 EN 55013:1990, (withdrawn) EN 55014-1:2006 EN 55014-1:2000, Amd A1 and A2 EN 55014-1:1993, (withdrawn) EN 55014:1987, Amd A2, (withdrawn) EN 55015:2007, Amd A1 EN 55015:2006 + A1:2007 + A2:2009



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<b>SECTION 2: EMC TESTING</b> (cont'd)  As listed on Page 7	<b>2 EMC Tests</b> (cont'd)  2.1 <u>Emissions</u> (cont'd)  2.1.2 Radiated Emissions (cont'd)	EN 55015:2000, Amd A1 and A2 EN 55015:1996, (withdrawn) EN 55022:2006 + A1:2007 Excluding: ISN methods on telecoms ports EN 55022:1998, Amd A1 and A2 EN 55022:1994, (withdrawn) EN 55022:1987, (withdrawn) CISPR 14:1985, Amd A2, (withdrawn) CISPR 22:1993, (withdrawn) VDE 0871:1978/85 VDE 0875:Parts 1, 2 and 3:1988 RIA No 18:1990 FCC CFR 47 Part 11 FCC CFR 47:Parts 15 and 18 ANSI C63.4:2003 FCC OST MP-5:1986
	2.1.3 Radiated Power 30 MHz to 300MHz	EN 55014-1:2006 + A1:2009 EN 55016-2-2:2004 + A1: 2005 + A2: 2005
	2.1.4 Harmonics	EN 60555-2:1987, (withdrawn) EN 61000-3-2:2014 EN 61000-3-2:2006+A2:2009 EN 61000-3-2:2006 EN 61000-3-2:2000 EN 61000-3-2:1995, (withdrawn)
	2.1.5 Flicker	EN 61000-3-3:2013 EN 61000-3-3:1995, Amds A1 and A2 EN 60555-3:1987, (withdrawn) EN 61000-3-3:2008



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<b>SECTION 2: EMC TESTING</b> (cont'd)  As listed on Page 7	<b>2 EMC Tests</b> (cont'd)  2.2 <u>Immunity</u>  2.2.1 Electrostatic discharge up to 15 kV  2.2.2 Fast Burst Transients Fast transients: 2 kV at 5 kHz 4 kV at 2.5 kHz	EN 61000-4-2:2009 EN 61000-4-2:1995, Amds A1 and A2  EN 61000-4-4:2012 EN 61000-4-4:2004 + A1:2010 EN 61000-4-4:2004 EN 61000-4-4:1995, (withdrawn) IEC 801:Part 4:1988	
	2.2.3 Surge Immunity Surge to 4 Combination Wave 2/50 µsec - 8/20 µsec	EN 61000-4-5:2006 EN 61000-4-5:1995, Amd A1 IEC 60801-5:DRAFT:1992 DD ENV 50142:1994	
	2.2.4 Conducted RF Immunity	EN 61000-4-6:2009 EN 61000-4-6:2007 EN 61000-4-6:1996, Amd A1, (withdrawn)	
	2.2.5 Power Frequency Magnetic fields H-field: 50 Hz 1-50 A/m	BS EN 61000-4-8:1994, Amd 1	
	2.2.6 Voltage dips and interrupts	EN 61000-4-11:2004 EN 61000-4-11:1994, (withdrawn)	
	2.2.7 Oscillatory Waves immunity	BS EN 61000-4-12:1996	



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<b>SECTION 2: EMC TESTING</b> (cont'd)  As listed on Page 7  Motor Vehicles Motor Vehicle Accessories and Components Bicycles (powered) Construction Plant and Equipment Industrial Trucks Rescue Appliances Vehicle Security Devices Military Vehicles and Devices	<b>2 EMC Tests</b> (cont'd)  2.2 <u>Immunity</u> (cont'd)  2.2.8 Radiated Immunity E-field:  80 MHz - 2 GHz 10 V/m 10 kHz - 1 GHz 20 V/m 1 GHz - 2.7 GHz 30 V/m	EN 61000-4-3:2006 + A1:2006 + A2:2010 EN 61000-4-3:2006 EN 61000-4-3:2002, Amd A1 BS 6667:Part 3:1985, (withdrawn) IEC 801:Part 3:1984, (withdrawn) IEC 801:Part 3:Draft 7:1992 IEC 1000-4-3:1995 EN 61000-4-3:1996 ENV 50140:1994, (withdrawn) ENV 50141:1994, (withdrawn)  EN 50204:1995 EN 55020:1988 RIA No 18:1990
	<b>2.3 Automotive EMC Tests</b>  2.3.1 Transient tests	ISO 7637-1:2002 + A1:2008 ISO 7637-2:2004 + A1:2008 ISO 7637-3:2007 ISO 7637-1:1990 ISO 7637-2:1990 ISO 7637-3:1995 ISO 13766:2006 Annexes D and E 2004/104/EC Annex X 2005/83/EC Annex X
	2.3.2 Electro-Static Discharge (ESD) Up to 18 kV	ISO TR 10605:1994 ISO 10605:2001 (Components)



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<b>SECTION 2: EMC TESTING</b> (cont'd)  As listed on Page 7  Electrical/Electronic components- systems For automotive "ESA"	<b>2 EMC Tests</b> (cont'd)  2.3 <u>Automotive EMC Tests</u> (cont'd)  2.3.3 Radiated Emissions E-field: 30 MHz to 1 GHz H-field: 9 kHz to 30 MHz	2004/104/EC, Annexes VII and VIII 2005/83/EC Annex VII and VIII 2000/2/EC 97/24/EC, Chapter 8 Annexes V and VI 95/54/EC:1995
	2.3.4 Conducted Immunity  20 MHz to 400 MHz 60mA	ISO 11452-2:2004 2004/104/EC Annexes IX 2005/83/EC Annex IX
	2.3.5 Radiated Immunity  E-field:  80 MHz to 2.7 GHz 100 V/m	ISO 11452-2:2004 2004/104/EC Annexes IX 95/54/EC:1995 2005/83/EC Annex IX
	Note:  For automotive Directive tests The accreditation extends to cover:	72/245/EC including all relevant amendments up to and including 2009/19/EC ECE Regulation 10.04 Annexes 7, 8, 9 & 10 for ESA





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<p><b>SECTION 2: EMC TESTING</b> (cont'd)</p> <p>As listed on Page 7</p>	<p><b>2 EMC Tests</b> (cont'd)</p> <p><u>2.4 Generic and Product Family Tests</u></p> <p>These are included to the extent that the standards called up are specifically included in this Schedule.</p>	<p>EN 50081-1:1992, (withdrawn) EN 50081-2:1993, (withdrawn) EN 50082-1:1997, (withdrawn) EN 50082-1:1992, (withdrawn) EN 50130-4:1995, A1 and A2 EN 55014-2:1997 + A1:2001 + A2:2008 EN 50082-2:1995, (withdrawn) EN 55024:1998, Amd A1 and A2 EN 60601-1-2:2007 IEC60601-1-2:2007 EN 60601-1-2:1993 EN 60601-1-2:2001 EN 61547:1995, Amd A1 EN 61547:2009 prETS 300 342-1:1994, (withdrawn) ETS 300 445:1996 ETS 300 680-1:1997 ETS 300 682:1997 ETS 300 683:1997 ETSI EN 301 489-1 V 1.6.1:2005 ETSI EN 301 489-3 V 1.4.1:2002 ETSI EN 301 489-7 V 1.3.1:2005 ETSI EN 301 489-24 V 1.4.1:2007 TRG 1068:1991 EN 55016-2-1:2004 EN 55016-2-3:2006 EN 61000-6-1:2007 EN 61000-6-1:2001 EN 61000-6-2:2005 EN 61000-6-2:2001 EN 61000-6-2:1999, (withdrawn) EN 61000-6-3:2007+A1:2011 Excluding telecoms Port conducted emissions EN 61000-6-3:2007 EN 61000-6-3:2001, Amd A11 EN 61000-6-4:2007+A1:2011 Excluding telecoms Port conducted emissions EN 61000-6-4:2007 EN 61000-6-4:2001 EN 61326:2013 excluding Power</p>



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<p><b>SECTION 2: EMC TESTING</b> (cont'd)</p> <p>As listed on Page 7</p>	<p><b>2 EMC Tests</b> (cont'd)</p> <p>2.4 <u>Generic and Product Family Tests</u> (cont'd)</p>	<p>Frequency Magnetic Field RIA No 18:1990 EN 50121-3-2:2006 excluding traction port CE EN 50121-4:2006 excluding traction port conducted emissions, power frequency and pulsed magnetic field immunity</p>
	<p><b><u>Facilities:</u></b></p> <p><b>Screened room:</b> 5 m long, 4 m wide, 5 m high, partially lined with absorber</p> <p><b>Maximum size of EUT:</b> 1.5 m x 1.5 m Weight 1000 kg</p> <p>except for Magnetic power: 0.3 m x 0.3 m</p> <p><b>Power supplies available:</b> 240 V/115 V, Single phase, 13 A 440 V, 3-phase, 60 A per phase</p>	
	<p><b><u>Facilities:</u></b> (cont'd)</p> <p><b>Open Area Test Site:</b> 3 m and 10 m ranges</p> <p><b>Maximum size of EUT:</b> 2 m x 2 m Weight 450 kg</p>	



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<p><b>SECTION 3: HOUSEHOLD and SIMILAR ELECTRICAL APPLIANCES</b></p> <p>Hand-held motor-operated electric tools. Safety. General requirements</p>	<p><b>Electrical Product Tests</b> (Single phase appliances only)</p> <p>Electrical Safety</p> <p>Size limitation for humidity tests: 850 x 1000 x 700 mm</p>	<p>BS EN 60745-1:2009+A11:2010 BS EN 60745-1:2006, Amd 1, Corrig</p>
Drills and Impact Drills	Electrical Safety	BS EN 60745-2-1:2003, Amd 1
Screwdrivers and Impact Wrenches	Electrical Safety	BS EN 60745-2-2:2003, Amd 1
Grinders, Polishers and Disk-type Sanders	Electrical Safety	BS EN 60745-2-3:2007
Sanders and Polishers other than Disk type	Electrical Safety	BS EN 60745-2-4:2003, Amd 1
Circular Saws	Electrical Safety	BS EN 60745-2-5:2003
Hammers	Electrical Safety	BS EN 60745-2-6:2003, Amd's 1 and 2
Reciprocating Saws (jig and sabre saws)	Electrical Safety	BS EN 60745-2-11:2003, Amd 1
Concrete Vibrators	Electrical Safety	BS EN 60745-2-12:2003
Chain Saws	Electrical Safety	BS EN 60745-2-13:2007
Planers	Electrical Safety	BS EN 60745-2-14:2003, Amd 1
Hedge Trimmers	Electrical Safety	BS EN 60745-2-15:2006



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<p><b>SECTION 3: HOUSEHOLD and SIMILAR ELECTRICAL APPLIANCES (cont'd)</b></p> <p>Routers and Trimmers</p>	<p><b>Electrical Product Tests</b> (cont'd) (Single phase appliances only)</p> <p>Electrical Safety</p>	<p>BS EN 60745-2-17:2003, Amd 1</p>
<p>Household And Similar Electrical Appliances General Requirements</p>	<p>Electrical Safety Size limitation for humidity tests: Max dimensions of chamber: 850 x 1000 x 700 mm</p>	<p>BS EN 60335-1:2012+A11:2014 Excluding: Clause 22.32: Oxygen bomb Clause 24.1: Components Annex J Annex R, Software</p> <p>BS EN 60335-1:2002 Excluding: Clause 22.32:Oxygen bomb Clause 24.1:Components Annex J Annex R, Software</p> <p>BS EN 60335-1:1995, Amds 1 to 7 Excluding: Clause 22.32:Oxygen bomb Clause 24.1:Components</p>
<p>Vacuum Cleaners and Suction Devices</p> <p><i>Excluding current carrying hose attachments</i></p>	<p>Electrical Safety</p>	<p>BS EN 60335-2-2:2003 BS EN 60335-2-2:1996, Amds 1 and 2, (withdrawn)</p>
<p>Irons, Electric (Domestic)</p> <p><i>Excluding pressure vessel types</i></p>	<p>Electrical Safety</p>	<p>BS EN 60335-2-3:2002 BS EN 60335-2-3:1991, Amds 1 to 4, (withdrawn) BS EN 60335-2-3:1995, Amds 1 and 2, (withdrawn)</p>



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<p><b>SECTION 3: HOUSEHOLD and SIMILAR ELECTRICAL APPLIANCES (cont'd)</b></p> <p>Stationary cooking ranges, hobs, ovens and similar appliances</p> <p><i>Excluding Pyrolytic self-cleaning ovens</i></p>	<p><b>Electrical Product Tests</b> (cont'd) (Single phase appliances only)</p> <p>Electrical Safety</p>	<p>BS EN 60335-2-6:2003, Amd 1 Excluding: Clauses 22.108 - 22.112</p>
Shavers and Hair Clippers, Electric	Electrical Safety	BS EN 60335-2-8:2015 BS EN 60335-2-8:2003+A1:2005+A2:2008 BS EN 60335-2-8:1996, Amd 1, (withdrawn) BS EN 60335-2-8:1991, Amd 1, (withdrawn)
Toasters, Grills, Roasters, etc	Electrical Safety	BS EN 60335-2-9:1991, Amds 1 to 3, (withdrawn) BS EN 60335-2-9:1996, Amds 1 to 4, (withdrawn)
Plate warmers and similar appliances	Electrical Safety	BS EN 60335-2-12:2003+A1:2008 BS EN 60335-2-12:1991, (withdrawn) BS EN 60335-2-12:1995, (withdrawn)
Frying Pans, Deep Fat Fryers, etc	Electrical Safety	BS EN 60335-2-13:2010+A11:2012 BS EN 60335-2-13:2003 BS EN 60335-2-13:1991, Amds 1, (withdrawn) and 2 BS EN 60335-2-13:1996, Amd 1, (withdrawn)
Kitchen machines	Electrical safety	BS EN 60335-2-14:2006+A1:2008



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<b>SECTION 3: HOUSEHOLD and SIMILAR ELECTRICAL APPLIANCES (cont'd)</b>  Appliances for heating liquids	<b>Electrical Product Tests (cont'd)</b> (Single phase appliances only)  Electrical Safety	BS EN 60335-2-15:2002 BS EN 60335-2-15:1996, Amds 1, (withdrawn) and 2 BS EN 60335-2-15:1991, Amds 1 to 5, (withdrawn)
Appliances for Skin and Hair <i>Excluding helmet hairdryers</i>	Electrical Safety	BS EN 60335-2-23:2003 BS EN 60335-2-23:1991, Amds 1, (withdrawn) and 2 BS EN 60335-2-23:1996, Amd 1, (withdrawn)
Refrigerators, food freezers and ice makers Excluding:- Appliances for camping or similar use	Electrical safety	BS EN 60335-2-24:2003, Amd 1 Excluding: Clause 21.101, Clauses 22.106 to 22.110, Flammable refrigerants
Microwave ovens	Electrical safety	BS EN 60335-2-25:2002, Amds 1 and 2 Excluding: Clause 22.116, Appliances for installing in road vehicles
Battery Chargers <i>Excluding caravan types</i>	Electrical safety	BS EN 60335-2-29:2004+A1:2005+A2:2010 Excluding pendulum impact test, clause AA.21.201 BS EN 60335-2-29:1997, Amd 1, (withdrawn) BS EN 60335-2-29:1991, Amd 1, (withdrawn)
Room Heaters	Electrical safety	BS EN 60335-2-30:2003 BS EN 60335-2-30:1997, Amds 1 to 3, (withdrawn) BS EN 60335-2-30:1993, Amds 1 and 2, (withdrawn)



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<b>SECTION 3: HOUSEHOLD and SIMILAR ELECTRICAL APPLIANCES (cont'd)</b>  Massage Appliances	<b>Electrical Product Tests (cont'd)</b> (Single phase appliances only)  Electrical Safety	BS EN 60335-2-32:2003 BS EN 60335-2-32:1991, Amd 1, (withdrawn) BS EN 60335-2-32:1996, Amd 1, (withdrawn)
Motor compressors	Electrical Safety	BS EN 60335-2-34:2002 BS EN 60335-2-34:2000, (withdrawn)
Electrical heat pumps, air-conditioners and dehumidifiers	Electrical Safety	BS EN 60335-2-40:2003 Excluding: Clause 11.2:Supplementary heaters Clause 19.6:Indoor heat exchangers BS EN 60335-2-40:1998, Amd 1, (withdrawn) Excluding: Clause 11.2:Supplementary heaters Clause 19.6:Indoor heat exchangers
Pumps, Electric for liquids < 35°C <i>Excluding submersible pumps</i>	Electrical Safety	BS EN 60335-2-41:2003+A1:2004+A2:2010 BS EN 60335-2-41:1996, Amd 1, (withdrawn)
Clothes dryers and towel rails	Electrical Safety	BS EN 60335-2-43:2003, Amd 1+A2:2008
Ironers	Electrical Safety	BS EN 60335-2-44:2002+A1:2008+A2:2012 BS EN 60335-2-44:1998, (withdrawn)



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<b>SECTION 3: HOUSEHOLD and SIMILAR ELECTRICAL APPLIANCES (cont'd)</b>  Portable Electric Heating Tools	<b>Electrical Product Tests (cont'd)</b> (Single phase appliances only)  Electrical Safety	BS EN 60335-2-45:2002 BS EN 60335-2-45:1991, Amds 1, (withdrawn) to 3 BS EN 60335-2-45:1997, (withdrawn)
Oral Hygiene Appliances Connected To The Mains Supply	Electrical safety	BS EN 60335-2-52:2003
Electrical Appliances For Use With Aquariums And Garden Ponds	Electrical safety	BS EN 60335-2-55:2003+A1:2008
Whirlpool Baths And Whirlpool Spas	Electrical safety	BS EN 60335-2-60:2003
Pedestrian Controlled Mains-Operated Lawn-Mowers	Electrical safety	BS EN 60335-2-77:2006, Amd 1
Fans	Electrical safety	BS EN 60335-2-80:2003, Amd 1 Excluding:- Clause 20.101, hardness test
Isolating Transformers	Electrical safety	BS 3535:Part 1:1990, (withdrawn) (= EN 60742:1989), (withdrawn)
Electric Toys	Electrical safety	BS EN 50088:1996, Amds 1 to 3 (withdrawn) Excluding: Clause 16.3, transformers Clause 20 Annexes C and I BS EN 62115:2005 including A2:2011 Excluding: Annexes C and E





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<b>SECTION 4: LUMINAIRES</b>  Luminaires	<b>Electrical Product Tests</b>  Electrical Safety Size limitation for humidity tests: 850 x 1000 x 700 mm	BS EN 60598-1:2008 Excluding: Clause 4.2.4, UV radiation Annex P, UV measurements Components except transformers Lamps with igniters Rough service and linear tungsten halogen luminaires  BS EN 60598-1:2004 Excluding: Components except transformers Lamps with igniters Rough service and linear tungsten halogen luminaires
Fixed general purpose	Electrical Safety	EN60598-2-1:1989 BS 4533:Part 102.1:1990
Recessed	Electrical Safety	BS EN 60598-2-2:1997, Amd 1
Portable	Electrical Safety	BS EN 60598-2-4:1998 EN 60598-2-4:1989, (withdrawn)
With built-in transformers	Electrical Safety	BS EN 60598-2-6:1995, Amd 1
Handlamps	Electrical Safety	BS EN 60598-2-8:1997, Amd 1 EN 60598-2-8:1989, (withdrawn)
Portable luminaires for children	Electrical Safety	BS EN 60598-2-10:2003, Corrig Excluding: Clause 10.6.4 Clause 10.12.1 Toy components to ISO 8124 EN 60598-2-10:1989, (withdrawn)



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<b>SECTION 4: LUMINAIRES</b> (cont'd)  Aquarium luminaires	<b>Electrical Product Tests</b> (cont'd)  Electrical Safety	  BS EN 60598-2-11:2005
Mains socket-outlet mounted nightlights	Electrical Safety	BS EN 60598-2-12:2006 Excluding: Clause 12.6, plug types other than BS 1363
Lighting chains	Electrical Safety	BS EN 60598-2-20:1998, Amds 1 to 6 BS EN 60598-2-20:1992, (withdrawn) Excluding: Clause 20.6.14:Flexible pipes
<b>SECTION 5: INFORMATION TECHNOLOGY EQUIPMENT</b>  Information Technology Equipment including electrical business equipment	<b>Electrical Product Tests</b>  Electrical Safety <i>Excluding tests on equipment rated above 3 kW or 3-phase equipment</i>	 BS EN 60950-1:2006 including A12:2011+A2:2013 Excluding: Clause 1.5.7.3 Clause 2.1.1.9 Clause 2.3.5 Clause 2.10.3.5 Clause 2.10.3.9 b), Surge Test Clause 2.10.8.4 Clause 3.2.5.1 Clause 4.2.8, Implosion of cathode ray tubes Clause 4.2.9 Clause 4.3.12, Flammable liquids Clause 4.3.13.2 Clause 4.3.13.3, UV Exposure



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<p><b>SECTION 5: INFORMATION TECHNOLOGY EQUIPMENT</b> (cont'd)</p> <p>Information Technology Equipment including electrical business equipment (cont'd)</p>	<p><b>Electrical Product Tests</b> (cont'd)</p> <p>Electrical Safety <i>Excluding tests on equipment rated above 3 kW or 3-phase equipment</i> (cont'd)</p>	<p>BS EN 60950-1:2006+A2:2013 including A12:2011 Excluding: (cont'd) Clause 4.3.13.4, UV Exposure Clause 4.3.13.5, Lasers Clause 4.3.13.6, Lasers Clause 4.5.1 Clause 5.1.7.1 Clause 5.3.6 Clause 6.2.2.1, Surge Test Clause 7.3 Over voltage test Clause 7.4.2, Surge test Clause 7.4.3, Surge test Annex A3, Hot flaming oil Annex G.5 b) Surge test Annex Q, VDR's Annex U, insulated windings Annex Y, UV conditioning Annex AA, Mandrel test Annex CC, IC current limiters Annex EE.5, Test probe Annex ZX, Sound pressure Telecommunication Equipment</p>
<p>Information Technology Equipment including electrical business equipment</p>	<p>Electrical Safety <i>Excluding tests on equipment rated above 3 kW or 3-phase equipment</i></p>	<p>BS EN 60950-1:2002 Excluding: Clause 1.5.2, Component testing Clause 4.2.8, Implosion of cathode ray tubes Clause 2.10.3.4, Surge Test Clause 2.10.5.4, Annex U Clause 4.2.7 Clause 4.2.9 Clause 4.3.12, Flammable liquids Clause 4.3.13.3, Lasers Clause 4.6.2, Annex A3 Clause 6.2.2.1, Surge Test Clause 7.3.2, Surge test Clause 7.3.3, Surge test Annex A3</p>



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<p><b>SECTION 5: INFORMATION TECHNOLOGY EQUIPMENT</b> (cont'd)</p> <p>Information Technology Equipment including electrical business equipment (cont'd)</p>	<p><b>Electrical Product Tests</b> (cont'd)</p> <p>Electrical Safety <i>Excluding tests on equipment rated above 3 kW or 3-phase equipment</i> (cont'd)</p>	<p>BS EN 60950-1:2002 Excluding: (cont'd)</p> <p>Annex G, Surge test Annex U Telecommunication Equipment</p>
<p>Information Technology Equipment including electrical business equipment</p>		<p>BS EN 60950:2000, (withdrawn) Excluding: Clause 1.5.2, Component testing Clause 2.10.3.4, Surge test Clause 2.10.5.4, 60851 tests Clause 4.2.8, Implosion of cathode ray tubes Clause 4.2.7 Clause 4.2.9 Clause 4.3.12, Flammable liquids Clause 4.3.13.3, Lasers Clause 4.6.2, Annex A5 Clause 6.2.2.1, Surge test Annex G, Surge test Annex A5 Annex U Telecommunication Equipment BS EN 60950:1992, (withdrawn) Excluding: Cable and cord testing Cathode Ray Tubes Equipment with flammable liquids Tests of separate components, eg, capacitors, thermal controls, etc Annexes A1 - A5 and A7 (Special flammability tests) Annex H (Ionising Radiation) Telecommunication Equipment</p>



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<p><b>SECTION 6: MEDICAL ELECTRICAL EQUIPMENT</b></p> <p>Medical Electrical Equipment General Requirement</p>	<p><b>Electrical Product Tests</b></p> <p>(Humidity pre-conditioning of equipment of relevant equipment parts limited to dimensions:</p> <p>42 cm x 46 cm x 55 cm and maximum gross weight: 25 kg)</p>	<p>BS EN 60601-1:2006 including A11:2011</p> <p>Excluding: Clause 9.8, Dynamic forces Clause 10, unwanted radiation Clause 11.2, Flammable agents Clause 12.4.5, Therapeutic radiation</p> <p>Annex L, Dielectric strength IEC 60601-1:2005</p> <p>Excluding: Clause 9.8, Dynamic forces Clause 10, unwanted radiation Clause 11.2, Flammable agents Clause 12.4.5, Therapeutic radiation</p> <p>Annex L, Dielectric strength IEC 60601-1:1988, (obsolescent) BS 5724:Part 1:1989, Amds A1 and A2, (obsolescent) EN 60601-1:1990, Amds A1, A2 and A11 to A13, (obsolescent)</p> <p>Exclusions: Clause 29, X-Radiation Clauses 39, 40, 41, Anaesthetic Proof Equipment Clause 45, Pressure Vessels Clause 48, Biocompatibility</p>
Nerve and Muscle Stimulators	Electrical Safety Tests	IEC 60601-2-10:2012
Diagnostic and therapeutic laser equipment	Safety tests	BS EN 60601-2-22:1996 Excluding: Clauses 32, 50, 51, 52 and 59, Laser energy/power and pulse times



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<p><b>SECTION 7: ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE</b></p> <p>Safety requirements for electrical equipment for measurement, control and laboratory use General requirements</p>	<p><b>Electrical Product Tests</b></p> <p>Electrical Safety</p>	<p>BS EN 61010-1:2010 Excluding: Clause 7.2, Sharp edges Clause 9.3.2.b, Wire insulation flammability Clause 9.4, Flammable liquids Clause 11.7, Pressure &gt; 48 Mpa Clause 12.2.1, Ionizing radiation Clause 12.4, Microwave radiation Clause 12.6, Laser sources Clause 13.2.3, Implosion of cathode ray tubes Clause 14.8, Transient overvoltage Annex H, Qualification of conformal coatings</p> <p>BS EN 61010-1:2001 Excluding: Clause 9.4, Flammable liquids Clause 11.7, Pressure &gt; 48 Mpa Clause 12.2.1, Ionizing radiation Clause 12.4, Microwave radiation Clause 12.6, Laser sources Clause 13.2.3, Implosion of cathode ray tubes</p> <p>Clause 14.9, Surge test Clause 16.2, Measurement categories iii and iv Annex F, Routine tests BS EN 61010-1:1993, Amd 1 Excluding: Clause 11.6, Specially protected equipment Clause 11.7, Pressures &gt; 48 Mpa Clause 12.2.1, Ionizing radiation Clause 12.4, Microwave radiation Clause 12.5.2, Ultrasonic pressure Clause 13.3, Implosion of CRT's Annex D, products with max working voltage plus transients &gt; 8 kV Annex K, Routine tests</p>



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<b>SECTION 8: ACOUSTICS TESTING</b>	<b>Acoustical Tests</b>	
Item 11 Concrete or Mortar Mixers	Determination of Noise Emission in the Environment	Directive 2000/14/EC SI 1701:2001  BS EN ISO 3744:1995 as modified by 2000/14/EC
Item 25 Hedge Trimmers		BS EN ISO 3744:1995 as modified by 2000/14/EC
Item 32 Lawnmowers		BS EN ISO 3744:1995 as modified by 2000/14/EC  Directive 2000/14/EC SI 1701:2001 (cont'd)
Item 33 Lawn Trimmers/Lawn Edge Trimmers		BS EN ISO 3744:1995 as modified by 2000/14/EC
Item 34 Leaf Blowers		BS EN ISO 3744:1995 as modified by 2000/14/EC
Item 35 Leaf Collectors		BS EN ISO 3744:1995 as modified by 2000/14/EC
Item 40 Motor Hoes		BS EN ISO 3744:1995 as modified by 2000/14/EC
Item 50 Shredders/Chippers		BS EN ISO 3744:1995 as modified by 2000/14/EC
Item 50 Shredders/Chippers		BS EN ISO 3744:1995 as modified by 2000/14/EC
Garden Equipment - Powered Lawnmowers		BS EN 836:1997, Amd 1, Clause 4.1.13, Annex H



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<b>SECTION 9: ENVIRONMENTAL TESTS</b>	<b>Environmental Tests - Climatic</b>  9.1 Dry Heat up to 100 °C (constant) Chamber size: 450mm x 450mm x 450mm	BS EN 60068-2-2:2007 IEC 60068-2-2:1974, Amds 1 and 2, (withdrawn) and Sup A Test Variant Bb
	9.2 Cold - 40 °C (constant) Chamber size: 450mm x 450mm x 450mm	BS EN 60068-2-1:2007 IEC 60068-2-1:1990, Amds 1 and 2, (withdrawn) Test Variant Ab
	9.3 Shock (Ambient temperature only)  Half sine, 18ms, >40g	BS EN 60068-2-27:1993, Amd 1 IEC 60068-2-27:1987
	9.4 Damp Heat, Cyclic 30% RH to 97% RH 25°C to 60°C  Chamber size: 1.0m x 1.0m x 875 mm (high)	BS EN 60068-2-30:2005 IEC 60068-2-30:1980, Amd 1, (withdrawn)  Test Variant 1
	9.5 Vibration - sinusoidal  Frequency range: 10 Hz to 150 Hz Maximum mass; 10Kg Maximum acceleration: 10g  Range of movement 0.5" / 12.7 mm pk - pk displacement	BS EN 60068-2-6:2008 IEC 60068-2-6:1995, Corrig Test Fc
	9.6 Mechanical Tests (spring impact hammer)  Mechanical strength of casing up to 1 Nm	BS EN 60068-2-75:1997 Test Eh





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<b>SECTION 9: ENVIRONMENTAL TESTS</b>	<b>Environmental Tests - Climatic (cont'd)</b>  9.7 Generic and Product Family Tests  These are included to the extent that the standards called up are specifically included in this Schedule.	BS EN 50470-1:2006 BS EN 50470-2:2006 BS EN 50470-3:2006 BS EN 60521:1995, (withdrawn) BS EN 60687:1993, Amd 1, (withdrawn) BS EN 61036:1997, Amd 1, (withdrawn) BS EN 61268:1996, (withdrawn)
	<b>INGRESS PROTECTION TESTS</b>  Enclosures for Electrical Equipment  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 810 x 760 x 800 mm  IP6X Dust Tight Excluding: Objects greater than 810 x 760 x 800 mm  IPX1 Protected against dripping water  IPX2 Protected against dripping water when tilted up to 15°  IPX3 Protected against spraying water	BS EN 60529:1992, Amd 1 and 2



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<b>SECTION 9: ENVIRONMENTAL TESTS</b> (cont'd)	<b>INGRESS PROTECTION TESTS</b> (cont'd)  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 Ø 0.94m x 1.25m	



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<p><b>SECTION 10: UTILITY METERING AND ASSOCIATED PRODUCTS</b></p> <p>eg: AC watt-hour meters and static var-hour meters</p>	<p><b>Accuracy Tests</b> (in accordance with class accuracy)</p> <p><b>Influence Tests</b></p> <p>Voltage variation Frequency variation Reverse phase sequence Voltage unbalance Harmonics in current and voltage circuits Harmonics and sub-harmonics in current circuits Continuous magnetic induction of external origin</p> <p>Magnetic induction of external origin 0.5mT Power consumption Supply voltage Self-heating</p> <p>Influence of heating Short-time currents Impulse Voltage Tests - Peak voltage 6.0 kV - Impulse 1.2/50 <math>\mu</math>s AC Voltage Tests - 2 kV and 4 kV RMS at 50 Hz Electrostatic discharge Radiated Immunity EFTB Radiated Emissions Conducted Emissions Conducted Immunity Surge Damped Oscillatory Waves EMC, Climatic and Mechanical influences as covered in the schedule above</p>	<p>BS EN 50470-1:2006 BS EN 50470-2:2006 BS EN 50470-3:2006 BS EN 62052-11:2003 BS EN 62053-11:2003 BS EN 62053-21:2003 BS EN 62053-22:2003 BS EN 62053-23:2003 BS EN 60521:1995, (withdrawn) BS EN 60687:1993, Amd 1, (withdrawn) BS EN 61036:1997, Amd 1, (withdrawn) BS EN 61268:1996, (withdrawn) Excluding: Clause 5.3.4 Solar radiation test Clause 5.4.7, Earth fault</p>



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<b>SECTION 11: OTHER TESTS</b>  13A rewirable and non-rewirable plugs	Electrical safety  Construction Resistance to Heat Resistance to Abnormal heat, fire and tracking	BS 1363-1:1995 including Amendments A1:1997, A2:2003, A3:2007 & A4:2012 For clauses 2.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, 12.17, 22.2 and 23 Excluding non-solid and nickel plated brass pins.
Fire hazard testing	Glow wire test	BS EN 60695-2-10:2001 BS EN 60695-2-11:2001 BS EN 60695-2-12:2001 BS EN 60695-2-13:2001
Where the BS EN or EN standards have exact equivalents in EN or IEC Standards, those EN or IEC standards are also included in the accreditation.		
END		