

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>1116</b> Accredited to <b>ISO/IEC 17025:2017</b>	<b>SGS United Kingdom Limited</b>	
	Issue No: 063    Issue date: 06 August 2021	
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Section	Index	Pages
Section 1	RADIO TESTING	2 - 3
Section 2	EMC TESTING	4 - 11
Section 3	HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES	11- 15
Section 4	LUMINAIRES	16 - 17
Section 5	INFORMATION TECHNOLOGY EQUIPMENT	17 - 19
Section 6	ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE	21
Section 7	ENVIRONMENTAL TESTING	22 - 24
Section 8	UTILITY METERING AND ASSOCIATED PRODUCTS	25
Section 9	OTHER TESTS	26

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	1.1 Output Power/ERP: conducted and radiated up to 100 W (<1 GHz)  1.2 Frequency Range: 9 kHz to 18 GHz  1.3 Frequency error  1.4 Modulation bandwidth/occupied bandwidth  1.5 TX/RX Conducted spurious emissions 9 kHz to 6 GHz  1.6 TX/RX Conducted spurious emissions 25MHz to 12.75 GHz  1.7 TX Maximum e.r.p spectral density  1.8 TX Duty cycle  1.9 TX out of band emissions  1.10 TX Transient power  1.11 TX Adjacent channel power  1.12 TX behaviour under low voltage conditions  1.13 Adjacent channel selectivity  1.14 Receiver saturation at adjacent channel  1.15 Spurious response rejection  1.16 Receiver blocking	ETSI EN 300 220-1 V3.1.1 Excluding: Clause 5.13 Clause 5.5 Clause 5.14 Clause 5.21  EN 300 220-2 V3.1.1 Excluding: Clause 4.3.9 Clause 4.3.11 Clause 4.4.1 Clause 4.5.2 Clause 4.5.3 Clause 4.5.4  ETSI EN 300 511 V15.5.1 Spurious emissions only  ETSI EN 301 908-1 V11.1.1 Spurious emissions only  FCC CFR 47:Part 18  3GPP TS 51.010-1 Spurious emissions only



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<b>SECTION 1: RADIO TESTING</b> (cont'd)	<b>1 Radio Transmitter and Receiver Testing</b> (cont'd)	
<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	<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(Withdrawn) 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(Withdrawn) FCC OST MP-5:1986 EN 55016-2-1:2009+A1:2011



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<b>SECTION 2: EMC TESTING</b> (cont'd)  As listed on Page 4  Power Supplies: Electrical  Radio and TV Equipment Security Devices and Alarms  Telecomms Equipment Toys	<b>2 EMC Tests</b> (cont'd)  <b>2.1 Emissions</b> (cont'd)  2.1.2 Radiated Emissions   E-field: 30 MHz to 1 GHz   E-field: 1 GHz to 6 GHz	EN 55016-2-3:2010 + A1:2010 +A2 2014 BS 6527:1988, (withdrawn) EN 55011:2016 EN 55011:2009+A1:2010 EN 55011:2007, Amd A2 EN 55011:1998, Amd A1 and A2 EN 55013:1990, (withdrawn) EN 55014-1:2017 EN 55014-1:2006 EN 55014-1:2000, Amd A1 and A2 EN 55014-1:1993, (withdrawn) EN 55014:1987, Amd A2, (withdrawn) EN 55015:2013 +A1:2015 EN 55015:2007, Amd A1 EN 55015:2006 + A1:2007 + A2:2009 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(Withdrawn) FCC OST MP-5:1986 EN 55032:2015 excluding Broadcast receivers
	2.1.3 Radiated Power 30 MHz to 300MHz	EN 55014-1:2006 + A1:2009 EN 55016-2-2:2004 + A1: 2005 + A2: 2005



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<b>SECTION 2: EMC TESTING</b> (cont'd)  As listed on Page 4	<b>2 EMC Tests</b> (cont'd)  <b>2.1 Emissions</b> (cont'd)	
	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(Withdrawn) EN 61000-3-2:2000(Withdrawn)EN 61000-3-2:1995, (withdrawn)
	2.1.5 Flicker	EN 61000-3-3:2013 EN 61000-3-3:1995, Amds A1 and A2(Withdrawn) EN 60555-3:1987, (withdrawn) EN 61000-3-3:2008(Withdrawn)
	<b>2.2 Immunity</b>	
	2.2.1 Electrostatic discharge up to 15 kV	EN 61000-4-2:2009 EN 61000-4-2:1995, Amds A1 and A2(Withdrawn)
	2.2.2 Fast Burst Transients Fast transients: 2 kV at 5 kHz 4 kV at 2.5 kHz	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(Withdrawn)
	2.2.3 Surge Immunity Surge to 4 Combination Wave 2/50 µsec - 8/20 µsec	EN 61000-4-5:2014 EN 61000-4-5:2006 EN 61000-4-5:1995, Amd A1(Withdrawn) IEC 60801-5:DRAFT:1992 DD ENV 50142:1994
2.2.4 Conducted RF Immunity	EN 61000-4-6:2014 EN 61000-4-6:2009 EN 61000-4-6:2007 EN 61000-4-6:1996, Amd A1, (withdrawn)	



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<b>SECTION 2: EMC TESTING</b> (cont'd)  As listed on Page 4	<b>2 EMC Tests</b> (cont'd)  <b>2.2 Immunity</b> (cont'd)  2.2.5 Power Frequency Magnetic fields H-field: 50 Hz 1-50 A/m	EN 61000-4-8:2010 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)
	2.2.8 Radiated Immunity E-field:  80 MHz - 2 GHz 20 V/m 80 MHz to 1 GHz 30 V/m 10 kHz - 1 GHz 20 V/m 1 GHz - 2.7 GHz 30 V/m 1 GHz to 6 GHz 10 V/m  The following spot frequencies up to 28 V/m 80 % AM or 50 V/m Pulse modulated.  385 MHz, 450 MHz, 710 MHz, 745 MHz, 780 MHz, 810 MHz, 870 MHz, 930 MHz, 1720 MHz, 1845 MHz, 1970 MHz, 2450 MHz	EN 61000-4-3:2006 + A1:2006 + A2:2010 EN 61000-4-3:2006 EN 61000-4-3:2002, Amd A1(Withdrawn) BS 6667:Part 3:1985, (withdrawn) IEC 801:Part 3:1984, (withdrawn) IEC 801:Part 3:Draft 7:1992(Withdrawn) IEC 1000-4-3:1995(Withdrawn) EN 61000-4-3:1996(Withdrawn) ENV 50140:1994, (withdrawn) ENV 50141:1994, (withdrawn)  EN 50204:1995(Withdrawn) EN 55020:1988(Withdrawn) RIA No 18:1990(Withdrawn)



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<b>SECTION 2: EMC TESTING</b> (cont'd)  Motor Vehicles Motor Vehicle Accessories and Components Bicycles (powered) Construction Plant and Equipment Industrial Trucks Rescue Appliances Vehicle Security Devices Military Vehicles and Devices Electrical/Electronic components-systems For automotive "ESA"	<b>2 EMC Tests (cont'd)</b>  <b>2.3 Automotive EMC Tests</b>  2.3.1 Transient tests	ISO 7637-1:2015 ISO 7637-2:2011 ISO 7637-3:2016 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 10605:2014 ISO TR 10605:1994 ISO 10605:2001 (Components)
	2.3.3 Radiated Emissions  E-field: 30 MHz to 1 GHz H-field: 9 kHz to 30 MHz  <sup>1</sup> ESA only. Excluding vehicle antenna port emissions and TEM Cell methods	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 <sup>1</sup> CISPR 25:2002 + Corrigendum 1: 2004 excluding clauses 5 and 6.5
	2.3.4 Conducted Immunity  20 MHz to 400 MHz 60mA	ISO 11452-4:2011 ISO 11452-4:2004 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



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<p><b>SECTION 2: EMC TESTING</b> (cont'd)</p> <p>As listed on Page 8</p>	<p><b>2 EMC Tests</b> (cont'd)</p> <p><b>2.3 Automotive EMC Tests</b> (cont'd)</p> <p>2.3.5 Radiated Immunity (cont'd)</p> <p>Note:</p> <p>For automotive Directive tests The accreditation extends to cover:</p>	<p>72/245/EC including all relevant amendments up to and including 2009/19/EC ECE Regulation 10.04 Annexes 7, 8, 9 &amp; 10 for ESA ECE Regulation 10.05 Annexes 7, 8, 9 &amp; 10 for ESA</p>
	<p>2.3.6 Conducted Emissions (ESA) 150 kHz to 108 MHz AN &amp; Current Probe methods</p>	<p>CISPR 25:2002 + Corrigendum 1: 2004 excluding clauses 5 and 6.5</p>
	<p><b>2.4 Generic and Product Family Tests</b></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 55014-2:2015EN 55014-2:1997 + A1:2001 + A2:2008 EN 50082-2:1995, (withdrawn) EN 55024:2010 + A1:2015 EN 55024:1998, Amd A1 and A2 EN 60601-1-2:2015 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 300 680:1997 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 EN 301 489-1 V2.2.0</p>





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<p><b>SECTION 2: EMC TESTING</b> (cont'd)</p> <p>As listed on Page 8</p>	<p><b>2 EMC Tests</b> (cont'd)</p> <p><b>2.4 <u>Generic and Product Family Tests</u></b> (cont'd)</p> <p><b>Facilities:</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 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>EN 301 489-3 V2.1.1 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 EN 50130-4:2011 +A1:2014 Frequency Magnetic Field RIA No 18:1990 EN50121-3-2:2015 EN 50121-4:2016 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>



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<b>SECTION 2: EMC TESTING</b> (cont'd)	<b>Facilities:</b> (cont'd)  <b>Open Area Test Site:</b> 3 m and 10 m ranges  <b>Maximum size of EUT:</b> 2 m x 2 m Weight 450 kg	
<b>SECTION 3: HOUSEHOLD and SIMILAR ELECTRICAL APPLIANCES</b>  Hand-held motor-operated electric tools. Safety. General requirements  Hedge Trimmers	<b>Electrical Product Tests</b> (Single phase appliances only)  Electrical Safety  Size limitation for humidity tests: 850 x 1000 x 700 mm  Electrical Safety	BS EN 60745-1:2009+A11:2010 BS EN 60745-1:2006, Amd 1, Corrig  BS EN 60745-2-15:2009 + A1:2010
Household And Similar Electrical Appliances General Requirements	Electrical Safety Size limitation for humidity tests: Max dimensions of chamber: 850 x 1000 x 700 mm	BS EN 60335-1:2012 +A13:2017 Excluding: Clause 22.32: Oxygen bomb Clause 24.1: Components Annex J Annex R, Software
Vacuum Cleaners and Suction Devices  <i>Excluding current carrying hose attachments</i>	Electrical Safety	BS EN 60335-2-2:2003
<b>SECTION 3: HOUSEHOLD and SIMILAR ELECTRICAL APPLIANCES</b> (cont'd)  Irons, Electric (Domestic)  <i>Excluding pressure vessel types</i>	<b>Electrical Product Tests</b> (cont'd) (Single phase appliances only)  Electrical Safety	BS EN 60335-2-3:2016



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Stationary cooking ranges, hobs, ovens and similar appliances <i>Excluding Pyrolytic self-cleaning ovens</i>	Electrical Safety	BS EN 60335-2-6:2003, Amd 1 Excluding: Clauses 22.108 - 22.112
Shavers and Hair Clippers, Electric	Electrical Safety	BS EN 60335-2-8:2015 + A1 2016
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
Frying Pans, Deep Fat Fryers, etc	Electrical Safety	BS EN 60335-2-13:2010+A11:2012
<b>SECTION 3: HOUSEHOLD and SIMILAR ELECTRICAL APPLIANCES (cont'd)</b>  Kitchen machines	<b>Electrical Product Tests (cont'd)</b> (Single phase appliances only)  Electrical safety	  BS EN 60335-2-14:2006+A1:2008
Appliances for heating liquids	Electrical Safety	BS EN 60335-2-15:2002
Appliances for Skin and Hair <i>Excluding helmet hairdryers</i>	Electrical Safety	BS EN 60335-2-23:2003
Microwave ovens	Electrical safety	BS EN 60335-2-25:2002, Amds 1 and 2 Excluding: Clause 22.116, Appliances for installing in road vehicles



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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
Room Heaters	Electrical safety	BS EN 60335-2-30:2009+A12:2020  BS EN 60335-2-30:2009 +A11:2012 (current, Superseded)  BS EN 60335-2-30:2003 (withdrawn)
<b>SECTION 3: HOUSEHOLD and SIMILAR ELECTRICAL APPLIANCES</b> (cont'd)	<b>Electrical Product Tests</b> (cont'd) (Single phase appliances only)	
Massage Appliances	Electrical Safety	BS EN 60335-2-32:2003
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
Pumps, Electric for liquids < 35°C <i>Excluding submersible pumps</i>	Electrical Safety	BS EN 60335-2-41:2003+A1:2004+A2:2010
Clothes dryers and towel rails	Electrical Safety	BS EN 60335-2-43:2003, Amd 1+A2:2008



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Ironers	Electrical Safety	BS EN 60335-2-44:2002+A1:2008+A2:2012
Oral Hygiene Appliances Connected To The Mains Supply	Electrical safety	BS EN 60335-2-52:2003 + A11:2010
Electrical Appliances For Use With Aquariums And Garden Ponds	Electrical safety	BS EN 60335-2-55:2003+A1:2008
<b>SECTION 3: HOUSEHOLD and SIMILAR ELECTRICAL APPLIANCES (cont'd)</b>	<b>Electrical Product Tests (cont'd) (Single phase appliances only)</b>	
Whirlpool Baths And Whirlpool Spas	Electrical safety	BS EN 60335-2-60:2003
Pedestrian Controlled Mains-Operated Lawn-Mowers	Electrical safety	BS EN 60335-2-77:2010 BS EN 60335-2-77:2006, Amd 1 (withdrawn)
Fans	Electrical safety	BS EN 60335-2-80:2003, Amd 1 Excluding:- Clause 20.101, hardness test



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<b>SECTION 4: LUMINAIRES</b>	<b>Electrical Product Tests</b>	
Luminaires	Electrical Safety Size limitation for humidity tests: 850 x 1000 x 700 mm	BS EN 60598-1:2015+A1:2018 (current, work in hand) 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 60598-1:2015 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 (withdrawn) 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 60598-2-2:2012
Portable	Electrical Safety	BS EN 60598-2-4:2018 BS EN 60598-2-4:1998 (superseded)



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With built-in transformers	Electrical Safety	BS EN 60598-2-6:1995, Amd 1
Handlamps	Electrical Safety	BS EN 60598-2-8:2013
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
<b>SECTION 4: LUMINAIRES</b> (cont'd)	<b>Electrical Product Tests</b> (cont'd)	
Aquarium luminaires	Electrical Safety	BS EN 60598-2-11:2013
Mains socet-outlet mounted nightlights	Electrical Safety	BS EN 60598-2-12:2013 Excluding: Clause 12.6, plug types other than BS 1363
Lighting chains	Electrical Safety	BS EN 60598-2-20:2015 Excluding: Clause 20.6.14:Flexible pipes Annex A, Assessment of Interconnecting Connectors
<b>SECTION 5: INFORMATION TECHNOLOGY EQUIPMENT</b>	<b>Electrical Product Tests</b>	



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<b>SECTION 5: INFORMATION TECHNOLOGY EQUIPMENT</b> (cont'd)	<b>Electrical Product Tests</b> (cont'd)	
<b>SECTION 5: INFORMATION TECHNOLOGY EQUIPMENT</b> (cont'd)  Audio/video, information and communication technology equipment. Safety requirements	<b>Electrical Product Tests</b> (cont'd)  Electrical Safety	BS EN 62368-1:2014+A11:2017 (current, Superseded) BS EN 62368-1:2014+A11:2017 (current, Superseded)  Excluding Clause 5.4.4.6.5 Mandrel Test Clause 5.4.5 (telecom network) Clause 5.4.10 (telecom network) Clause 8.5.5 Clause 8.6.4 Glass slide test Clause 10.5 Xray Clause 10.6 Sound Annex C UV Radiation Annex D 10/700us D3 (High pressure lamps) Annex E Annex G1 Annex G8 Annex G9 Annex G15 Annex G16 Annex H Annex J Annex M7 Annex M8 Annex R Annex S3 Annex U





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<p><b>SECTION 6: 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><b>SECTION 7: ENVIRONMENTAL TESTS</b></p>	<p><b>Environmental Tests - Climatic</b></p> <p>9.1 Dry Heat up to 100 °C (constant) Chamber size: 450mm x 450mm x 450mm</p>	<p>BS EN 60068-2-2:2007 IEC 60068-2-2:1974, Amds 1 and 2, (withdrawn) and Sup A Test Variant Bb</p>
	<p>9.2 Cold - 40 °C (constant) Chamber size: 450mm x 450mm x 450mm</p>	<p>BS EN 60068-2-1:2007 IEC 60068-2-1:1990, Amds 1 and 2, (withdrawn) Test Variant Ab</p>



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	9.3 Shock (Ambient temperature only)  Half sine, 18ms, >40g	BS EN 60068-2-27:1993, Amd 1 BS EN 60068-2-27:2009 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 BS EN 60068-2-75:2014 Test Ehb
<b>SECTION 7: ENVIRONMENTAL TESTS (cont'd)</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 +A1:2018 BS EN 50470-2:2006 +A1:2018 BS EN 50470-3:2006 +A1:2018 BS EN 60521:1995, (withdrawn) BS EN 60687:1993, Amd 1, (withdrawn) BS EN 61036:1997, Amd 1, (withdrawn) BS EN 61268:1996, (withdrawn)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Enclosures for Electrical Equipment	<p><b>INGRESS PROTECTION TESTS</b></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 810 x 760 x 800 mm</p> <p>IP6X Dust Tight Excluding: Objects greater than 810 x 760 x 800 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>	BS EN 60529:1992, +A2:2013
<b>SECTION 7: ENVIRONMENTAL TESTS</b> (cont'd)	<p><b>INGRESS PROTECTION TESTS</b> (cont'd)</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:</p>	



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	Objects greater than Ø 0.94m x 1.25m	
<p><b>SECTION 8: 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</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</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Continuous magnetic induction of external origin Magnetic induction of external origin 0.5mT Power consumption Supply voltage Self-heating Influence of heating Short-time currents Impulse Voltage Tests - Peak voltage 6.0 kV - Impulse 1.2/50 μs AC Voltage Tests - 2 kV and 4 kV RMS at 50 Hz Electrostatic discharge Radiated Immunity EFTB Radiated Emissions Conducted Emissions Conducted Immunity Surge	BS EN 62053-24:2015 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
<b>SECTION 9: 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 2016 For clauses 12.1, 12.2, 12.3, 12.9, 12.9., 12.11, 12.12, 12.13, 12.16, 12.17, 22.2 and 23 Excluding Clause 12.9.5 and Mechanical testing to Clause 20



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Fire hazard testing	Glow wire test	BS EN 60695-2-10:2013 (current, work in hand) BS EN 60695-2-11:2014 (current) BS EN 60695-2-12:2010+A1:2014 (current, work in hand) BS EN 60695-2-13:2010+A1:2014 (current, work in hand) BS EN 60695-2-10:2001 (withdrawn) BS EN 60695-2-11:2001 (withdrawn) BS EN 60695-2-12:2001 (withdrawn) BS EN 60695-2-13:2001 (withdrawn)
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		