




TEST REPORT

To:	SHENZHEN TENDA TECHNOLOGY CO., LTD
Address:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Factory name:	--			
Location:	--		Standards used:	<input checked="" type="checkbox"/> EN 60950-1:2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013 <input checked="" type="checkbox"/> IEC 60950-1:2005 (Second Edition) + Am 1: 2009 + Am 2: 2013
			Start date:	May 14, 2015
			Finish date:	June 23, 2015
			Sample No:	N150512-015-001-001
			Sections examined:	All clauses
			Re-testing:	--
300Mbps Wireless N Access Point, AP4		Remark / Note:	None	

CONCLUSION: The sample satisfies to the clauses examined.

Test done by James Huang Engineer / Safety Department	Approved by Kim Li Supervisor/ Safety Department
	
Date: June 23, 2015	Date: June 23, 2015

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.



History of Remark-Note

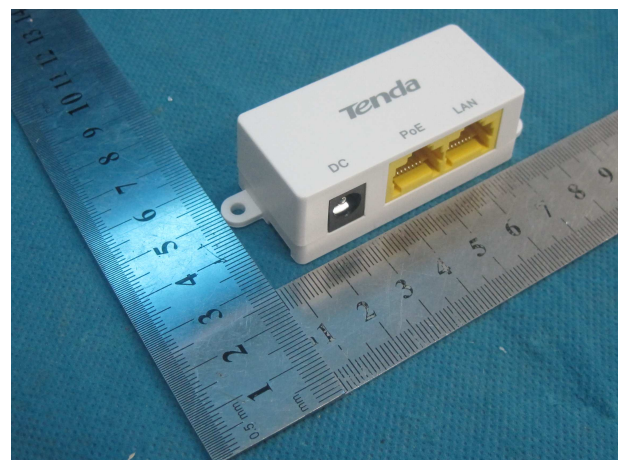
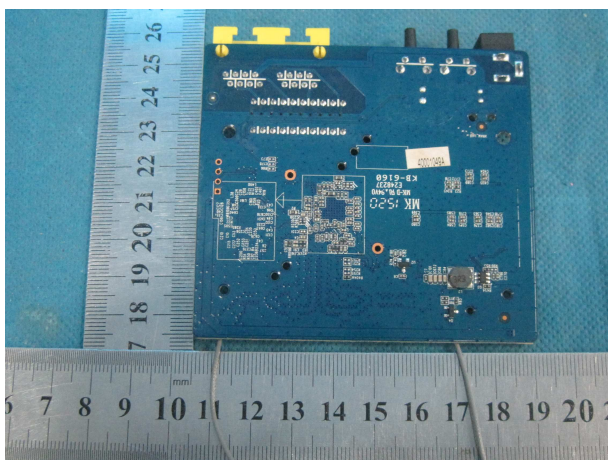
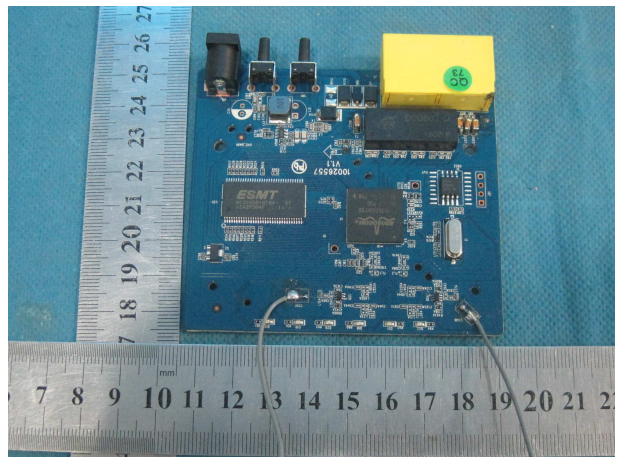
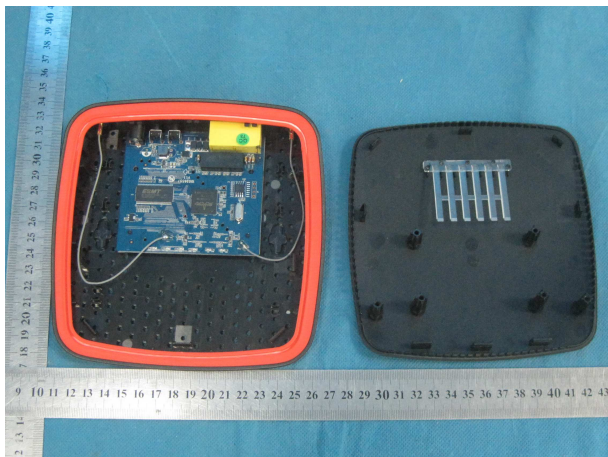
Clause	N/A	Picture of the problem
Description of the problem:		N/A
N/A		
Modification result:		N/A
N/A		
Clause	N/A	Picture of the problem
Description of the problem:		N/A
N/A		
Modification result:		N/A
N/A		



**BUREAU
VERITAS**

Test Report No: LD150514N006-R1

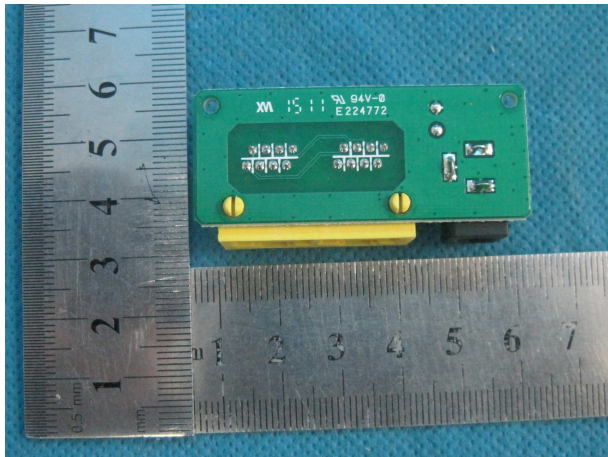
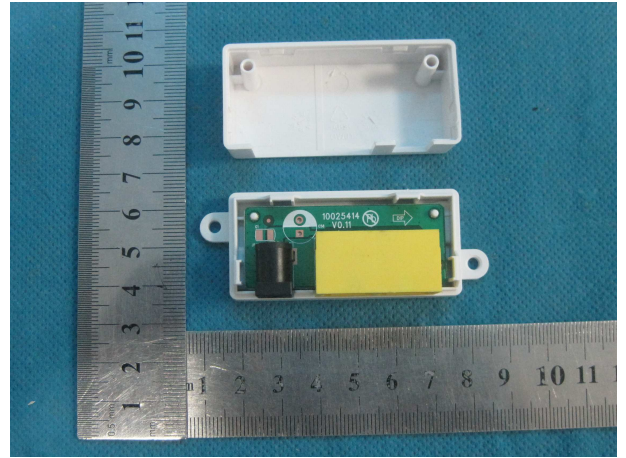
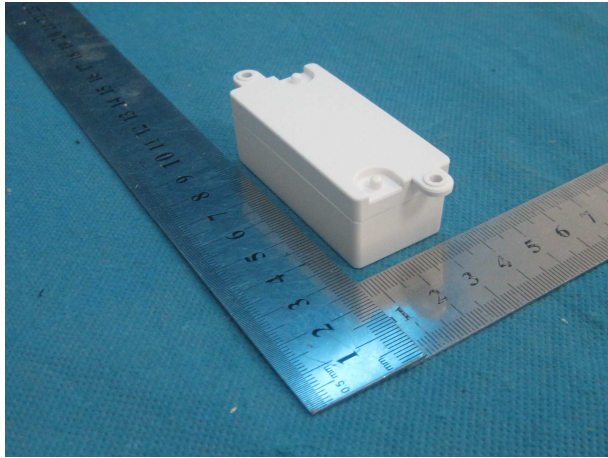
Open View





**BUREAU
VERITAS**

Test Report No: LD150514N006-R1





Test item description..... : 300Mbps Wireless N Access Point

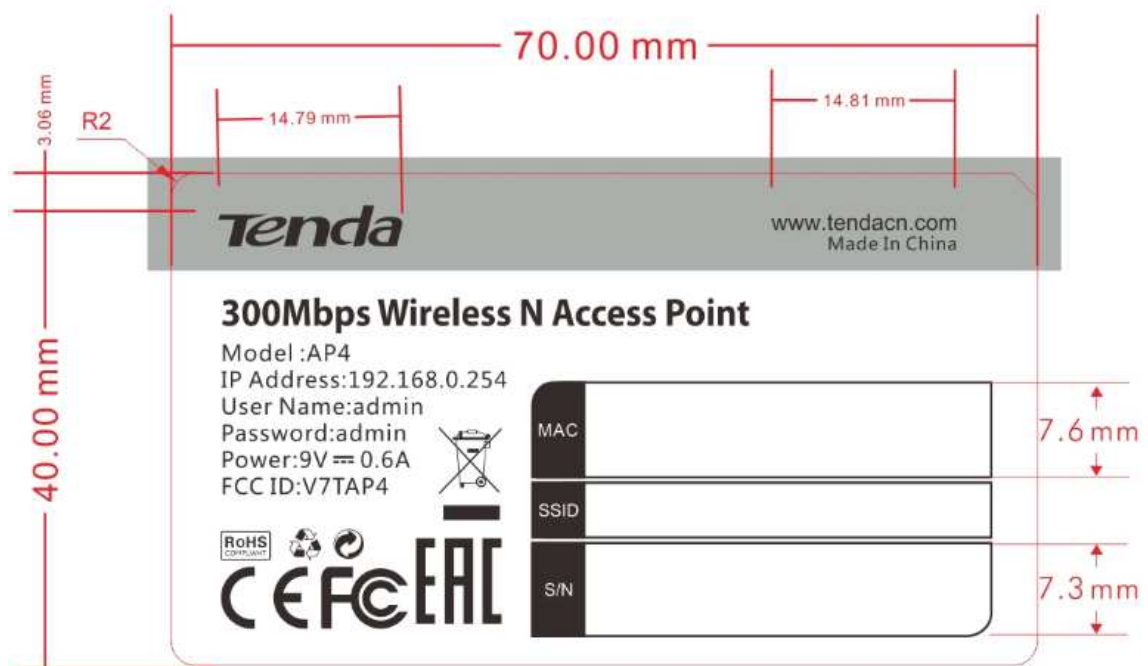
Trade Mark: Tenda

Manufacturer: SHENZHEN TENDA TECHNOLOGY CO.,LTD, Dongguan Branch

Model/Type reference.....: AP4

Ratings.....: 9Vdc, 0.6A

Copy of marking plate:





Summary of testing:

- The equipment under test (EUT) has been evaluated at maximum ambient (Tma) of +40°C according to the manufacturer's declaration.
- All tests were measured under the worst condition.

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

The Equipment has two DC supplied method:

- With injector, the injector supplied by external AC/DC adapter and supplied to the 300Mbps Wireless N Access Point. The PoE output rating of injector is 9Vdc, 0.6A.
- Without injector, the 300Mbps Wireless N Access Point supplied by external AC/DC adapter directly.

Remark 1: This test report replaces and cancels the previous Test report No: LD150514N006 dated on 2015-06-15.

Remark 2: The modifications applied on this report are:

- to correct the typing error "V-1 class" to "V-1 class".
- to change the ambient temperature from 45°C to 40°C.
- to update the test data in appended table 4.5.

Remark 3: For the described change in the "Remark 2", no test was considered necessary.

General product information:

- 1) The equipment is 300Mbps Wireless N Access Point which is supplied by external certificated AC/DC adapter which complied with LPS.
- 2) The maximum ambient temperature is specified as 40°C.
- 3) Dimension: For 300Mbps Wireless N Access Point: 187mm x 179mm x 161mm.
For injector: 76mm x 27mm x 23mm.



Test item particulars	
Equipment mobility	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in
Connection to the mains	<input type="checkbox"/> pluggable equipment <input type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input checked="" type="checkbox"/> not directly connected to the mains
Operating condition	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
Access location	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
Over voltage category (OVC)	<input type="checkbox"/> OVC I <input type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input checked="" type="checkbox"/> other: Supplied by external certificated AC/DC adapter.
Mains supply tolerance (%) or absolute mains supply values	N/A
Tested for IT power systems	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Not classified
Considered current rating of protective device as part of the building installation (A)	N/A
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
IP protection class	IPX0
Altitude during operation (m)	Below 2000 m
Altitude of test laboratory (m)	Below 2000 m
Mass of equipment (kg)	0.215kg

Possible test case verdicts:	
- test case does not apply to the test object.....	N/A (Not applicable)
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
- test object does not demand.....	ND (Not demanded)
Testing	
Date of receipt of test item	May 15, 2015
Date(s) of performance of tests	May 15, 2015 to May 26, 2015




IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
1	GENERAL		P
1.5	Components		P
1.5.1	General	Components, which were found to affect safety aspects, are conformed to the relevant IEC component standards and/or comply with the requirements of this standard.	P
	Comply with IEC 60950-1 or relevant component standard	See appended table 1.5.1	P
1.5.2	Evaluation and testing of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions presented in the equipment.	P
1.5.3	Thermal controls	No thermal controls used.	N/A
1.5.4	Transformers	No such component.	N/A
1.5.5	Interconnecting cables	No such parts.	N/A
1.5.6	Capacitors bridging insulation	No such parts.	N/A
1.5.7	Resistors bridging insulation	No such component.	N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	No such component.	N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	No such component.	N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	No such component.	N/A
1.5.8	Components in equipment for IT power systems	The EUT is not directly connected to the mains.	N/A
1.5.9	Surge suppressors	No such component.	N/A
1.5.9.1	General	No such component.	N/A
1.5.9.2	Protection of VDRs	No such component.	N/A
1.5.9.3	Bridging of functional insulation by a VDR	No such component.	N/A
1.5.9.4	Bridging of basic insulation by a VDR	No such component.	N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	No such component.	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict

1.6	Power interface		P
1.6.1	AC power distribution systems	The EUT is not directly connected to the mains.	N/A
1.6.2	Input current	(See appended table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment	Complied	P
1.6.4	Neutral conductor	The EUT is not directly connected to the mains.	N/A

1.7	Marking and instructions		P
1.7.1	Power rating and identification markings	See below.	P
1.7.1.1	Power rating marking		N/A
	Multiple mains supply connections.....:	The EUT is not directly connected to the mains.	N/A
	Rated voltage(s) or voltage range(s) (V)	9Vdc	P
	Symbol for nature of supply, for d.c. only	 used.	P
	Rated frequency or rated frequency range (Hz):		N/A
	Rated current (mA or A)	0.6A	P
1.7.1.2	Identification markings	See below.	P
	Manufacturer's name or trade-mark or identification mark	Trade-mark: Tenda	P
	Model identification or type reference	AP4	P
	Symbol for Class II equipment only	Class III equipment.	N/A
	Other markings and symbols	Additional symbols or markings do not give risk to misunderstanding.	P
1.7.1.3	Use of graphical symbols		N/A
1.7.2	Safety instructions and marking	Safety related information in English has been evaluated. Manufacturer commits to provide them in the language of the countries where the product will be distributed.	P
1.7.2.1	General	See below.	N/A
1.7.2.2	Disconnect devices	The EUT is not directly connected to the mains.	N/A
1.7.2.3	Overcurrent protective device	No such device.	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
1.7.2.4	IT power distribution systems	The EUT is not directly connected to the mains.	N/A
1.7.2.5	Operator access with a tool	No tool is necessary when operate this product.	N/A
1.7.2.6	Ozone	This EUT is not intended to produce the ozone.	N/A
1.7.3	Short duty cycles	The EUT is designed for continuous operation.	N/A
1.7.4	Supply voltage adjustment	No such device.	N/A
	Methods and means of adjustment; reference to installation instructions	No such device.	N/A
1.7.5	Power outlets on the equipment	No power outlet.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	No such component.	N/A
1.7.7	Wiring terminals	See below	N/A
1.7.7.1	Protective earthing and bonding terminals	Class III equipment.	N/A
1.7.7.2	Terminals for a.c. mains supply conductors	The EUT is not directly connected to the a.c. mains.	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	The EUT is not intended to be connected to the d.c. mains.	N/A
1.7.8	Controls and indicators	No such parts	N/A
1.7.8.1	Identification, location and marking	No such parts.	N/A
1.7.8.2	Colours	No such parts.	N/A
1.7.8.3	Symbols according to IEC 60417	No such parts.	N/A
1.7.8.4	Markings using figures	No such parts.	N/A
1.7.9	Isolation of multiple power sources	Not used.	N/A
1.7.10	Thermostats and other regulating devices	No thermostat or other regulating devices.	N/A
1.7.11	Durability	After this test there was no damage to the label. The marking on the label did not fade. There was no curling or lifting on the label edge.	P
1.7.12	Removable parts	Marking was not show on removable part.	N/A
1.7.13	Replaceable batteries	Describe in user manual.	P
	Language(s)	In English versions was evaluated.	—



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
1.7.14	Equipment for restricted access locations	This product is not intended to be used in the restricted access locations.	N/A

2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards		P
2.1.1	Protection in operator access areas	See below.	P
2.1.1.1	Access to energized parts	Class III equipment, supplied by SELV and there is no hazardous voltage generated inside the EUT.	N/A
	Test by inspection	Class III equipment, supplied by SELV and there is no hazardous voltage generated inside the EUT.	N/A
	Test with test finger (Figure 2A)	Class III equipment, supplied by SELV and there is no hazardous voltage generated inside the EUT.	N/A
	Test with test pin (Figure 2B)	Class III equipment, supplied by SELV and there is no hazardous voltage generated inside the EUT.	N/A
	Test with test probe (Figure 2C)	No TNV circuit inside the equipment.	N/A
2.1.1.2	Battery compartments		N/A
2.1.1.3	Access to ELV wiring	No ELV wiring inside the EUT.	N/A
	Working voltage (V _{peak} or V _{rms}); minimum distance through insulation (mm)		—
2.1.1.4	Access to hazardous voltage circuit wiring	Class III equipment, no circuit wiring with hazardous voltage inside the EUT.	N/A
2.1.1.5	Energy hazards	Class III equipment, supplied by the energy less than hazardous energy level.	P
2.1.1.6	Manual controls	No such device.	N/A
2.1.1.7	Discharge of capacitors in equipment	No such capacitors	N/A
	Measured voltage (V); time-constant (s)		—



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
2.1.1.8	Energy hazards – d.c. mains supply	This product is not intended to be connected to d.c. mains supply.	N/A
	a) Capacitor connected to the d.c. mains supply .. :	This product is not intended to be connected to d.c. mains supply.	N/A
	b) Internal battery connected to the d.c. mains supply .. :	This product is not intended to be connected to d.c. mains supply.	N/A
2.1.1.9	Audio amplifiers .. :	No such parts.	N/A
2.1.2	Protection in service access areas	The unintentional contact to the hazardous parts is unlikely for the service person.	N/A
2.1.3	Protection in restricted access locations	The EUT is not intended to be used in restricted locations.	N/A

2.2	SELV circuits		P
2.2.1	General requirements	See below.	P
2.2.2	Voltages under normal conditions (V) .. :	Class III equipment, supplied by SELV and there is no hazardous voltage generated in the EUT.	P
2.2.3	Voltages under fault conditions (V) .. :	Class III equipment, supplied by SELV and there is no hazardous voltage generated in the EUT.	P
2.2.4	Connection of SELV circuits to other circuits .. :	SELV circuit is only connected to SELV circuit.	P

2.3	TNV circuits		N/A
2.3.1	Limits	No TNV circuit.	N/A
	Type of TNV circuits .. :		—
2.3.2	Separation from other circuits and from accessible parts	No TNV circuit.	N/A
2.3.2.1	General requirements	No TNV circuit.	N/A
2.3.2.2	Protection by basic insulation	No TNV circuit.	N/A
2.3.2.3	Protection by earthing	No TNV circuit.	N/A
2.3.2.4	Protection by other constructions .. :	No TNV circuit.	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict

2.3.3	Separation from hazardous voltages	No TNV circuit.	N/A
	Insulation employed		—
2.3.4	Connection of TNV circuits to other circuits	No TNV circuit.	N/A
	Insulation employed		—
2.3.5	Test for operating voltages generated externally	No TNV circuit.	N/A

2.4	Limited current circuits		N/A
2.4.1	General requirements	No limited current circuits.	N/A
2.4.2	Limit values	No limited current circuits.	N/A
	Frequency (Hz).....		—
	Measured current (mA)		—
	Measured voltage (V)		—
	Measured circuit capacitance (nF or μ F)		—
2.4.3	Connection of limited current circuits to other circuits	No limited current circuits.	N/A

2.5	Limited power sources		N/A
	a) Inherently limited output	Class III equipment, supplied by approved AC/DC adaptor which complying with limited power source, and components are mounted on the min. V-1 class material.	N/A
	b) Impedance limited output	Class III equipment, supplied by approved AC/DC adaptor which complying with limited power source, and components are mounted on the min. V-1 class material.	N/A
	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	Class III equipment, supplied by approved AC/DC adaptor which complying with limited power source, and components are mounted on the min. V-1 class material.	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Use of integrated circuit (IC) current limiters	Class III equipment, supplied by approved AC/DC adaptor which complying with limited power source, and components are mounted on the min. V-1 class material.	N/A
	d) Overcurrent protective device limited output	Class III equipment, supplied by approved AC/DC adaptor which complying with limited power source, and components are mounted on the min. V-1 class material.	N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA)		—
	Current rating of overcurrent protective device (A) ..		N/A

2.6	Provisions for earthing and bonding		N/A
2.6.1	Protective earthing	Class III equipment.	N/A
2.6.2	Functional earthing	Class III equipment.	N/A
	Use of symbol for functional earthing	Class III equipment.	N/A
2.6.3	Protective earthing and protective bonding conductors	Class III equipment.	N/A
2.6.3.1	General	Class III equipment.	N/A
2.6.3.2	Size of protective earthing conductors	Class III equipment.	N/A
	Rated current (A), cross-sectional area (mm ²), AWG		—
2.6.3.3	Size of protective bonding conductors	Class III equipment.	N/A
	Rated current (A), cross-sectional area (mm ²), AWG		—
	Protective current rating (A), cross-sectional area (mm ²), AWG.....		—
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min)	Class III equipment.	N/A
2.6.3.5	Colour of insulation	Class III equipment.	N/A
2.6.4	Terminals	Class III equipment.	N/A
2.6.4.1	General	Class III equipment.	N/A
2.6.4.2	Protective earthing and bonding terminals	Class III equipment.	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict

	Rated current (A), type, nominal thread diameter (mm)..... :		—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	Class III equipment.	N/A
2.6.5	Integrity of protective earthing	Class III equipment.	N/A
2.6.5.1	Interconnection of equipment	Class III equipment.	N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	Class III equipment.	N/A
2.6.5.3	Disconnection of protective earth	Class III equipment.	N/A
2.6.5.4	Parts that can be removed by an operator	Class III equipment.	N/A
2.6.5.5	Parts removed during servicing	Class III equipment.	N/A
2.6.5.6	Corrosion resistance	Class III equipment.	N/A
2.6.5.7	Screws for protective bonding	Class III equipment.	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system	Class III equipment.	N/A

2.7	Overcurrent and earth fault protection in primary circuits		N/A
2.7.1	Basic requirements	Class III equipment.	N/A
	Instructions when protection relies on building installation	Class III equipment.	N/A
2.7.2	Faults not simulated in 5.3.7	Class III equipment.	N/A
2.7.3	Short-circuit backup protection	Class III equipment.	N/A
2.7.4	Number and location of protective devices :	Class III equipment.	N/A
2.7.5	Protection by several devices	Class III equipment.	N/A
2.7.6	Warning to service personnel :	Class III equipment.	N/A

2.8	Safety interlocks		N/A
2.8.1	General principles	No safety interlock provided.	N/A
2.8.2	Protection requirements	No safety interlock provided.	N/A
2.8.3	Inadvertent reactivation	No safety interlock provided.	N/A
2.8.4	Fail-safe operation	No safety interlock provided.	N/A
	Protection against extreme hazard		N/A
2.8.5	Moving parts	No safety interlock provided.	N/A
2.8.6	Overriding	No safety interlock provided.	N/A
2.8.7	Switches, relays and their related circuits	No safety interlock provided.	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)	No safety interlock provided.	N/A
2.8.7.2	Overload test	No safety interlock provided.	N/A
2.8.7.3	Endurance test	No safety interlock provided.	N/A
2.8.7.4	Electric strength test	No safety interlock provided.	N/A
2.8.8	Mechanical actuators	No safety interlock provided.	N/A

2.9	Electrical insulation		P
2.9.1	Properties of insulating materials	Class III equipment, no critical insulation in the EUT.	N/A
2.9.2	Humidity conditioning	Class III equipment, no critical insulation in the EUT.	N/A
	Relative humidity (%), temperature (°C)		—
2.9.3	Grade of insulation	Only the functional insulation inside the EUT.	P
2.9.4	Separation from hazardous voltages	Class III equipment, the EUT was not connected to the mains directly.	N/A
	Method(s) used		—

2.10	Clearances, creepage distances and distances through insulation		P
2.10.1	General	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	P
2.10.1.1	Frequency	Class III equipment.	N/A
2.10.1.2	Pollution degrees	This report considered the pollution degree II.	P
2.10.1.3	Reduced values for functional insulation	The functional insulation comply with 5.3.4 c).	P
2.10.1.4	Intervening unconnected conductive parts	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	N/A
2.10.1.5	Insulation with varying dimensions	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	N/A
2.10.1.6	Special separation requirements	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
2.10.1.7	Insulation in circuits generating starting pulses	No such circuit in the equipment.	N/A
2.10.2	Determination of working voltage	See below	N/A
2.10.2.1	General	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.2.2	RMS working voltage	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.2.3	Peak working voltage	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.3	Clearances	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.3.1	General	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.3.2	Mains transient voltages	Class III equipment. Not connected to a.c. mains directly.	N/A
	a) AC mains supply	Class III equipment. Not connected to a.c. mains directly.	N/A
	b) Earthed d.c. mains supplies	The equipment is not intended to be supplied by d.c. mains.	N/A
	c) Unearthed d.c. mains supplies	The equipment is not intended to be supplied by d.c. mains.	N/A
	d) Battery operation	Not supplied from a dedicated battery.	N/A
2.10.3.3	Clearances in primary circuits	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
2.10.3.4	Clearances in secondary circuits	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	N/A
2.10.3.5	Clearances in circuits having starting pulses	No such circuit.	N/A
2.10.3.6	Transients from a.c. mains supply	Class III equipment. Not connected to a.c. mains directly.	N/A
2.10.3.7	Transients from d.c. mains supply	The EUT is not intended to be connected to the d.c. mains.	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems	No connection to the telecommunication network and cable distribution systems.	N/A
2.10.3.9	Measurement of transient voltage levels	See below.	N/A
	a) Transients from a mains supply	Class III equipment. Not connected to the mains directly.	N/A
	For an a.c. mains supply	Class III equipment. Not connected to a.c. mains directly.	N/A
	For a d.c. mains supply	The EUT is not intended to be connected to the d.c. mains.	N/A
	b) Transients from a telecommunication network :	Not connected to telecommunication network.	N/A
2.10.4	Creepage distances	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.4.1	General	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.4.2	Material group and comparative tracking index	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
	CTI tests.....		—



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Clause	Requirement – Test	Result - Remark	Verdict
2.10.4.3	Minimum creepage distances	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.5	Solid insulation	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.5.1	General	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.5.2	Distances through insulation	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.5.3	Insulating compound as solid insulation	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.5.4	Semiconductor devices	No such components.	N/A
2.10.5.5.	Cemented joints	No such components.	N/A
2.10.5.6	Thin sheet material – General	No such components.	N/A
2.10.5.7	Separable thin sheet material	No such components.	N/A
	Number of layers (pcs)..... :		—
2.10.5.8	Non-separable thin sheet material	No such components.	N/A
2.10.5.9	Thin sheet material – standard test procedure	No such components.	N/A
	Electric strength test		—
2.10.5.10	Thin sheet material – alternative test procedure	No such components.	N/A
	Electric strength test		—
2.10.5.11	Insulation in wound components	No such components.	N/A
2.10.5.12	Wire in wound components	No such components.	N/A
	Working voltage :	No such components.	N/A
	a) Basic insulation not under stress :		N/A



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Clause	Requirement – Test	Result - Remark	Verdict
	b) Basic, supplementary, reinforced insulation :		N/A
	c) Compliance with Annex U :		N/A
	Two wires in contact inside wound component; angle between 45° and 90° :		N/A
2.10.5.13	Wire with solvent-based enamel in wound components	No such comenponents.	N/A
	Electric strength test		—
	Routine test		N/A
2.10.5.14	Additional insulation in wound components	No such comenponents.	N/A
	Working voltage :		N/A
	- Basic insulation not under stress :		N/A
	- Supplementary, reinforced insulation :		N/A
2.10.6	Construction of printed boards	No such comenponents.	N/A
2.10.6.1	Uncoated printed boards	No such construction.	N/A
2.10.6.2	Coated printed boards	No such construction.	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	No such construction.	N/A
2.10.6.4	Insulation between conductors on different layers of a printed board	No such construction.	N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs)..... :		N/A
2.10.7	Component external terminations	No such construction.	N/A
2.10.8	Tests on coated printed boards and coated components	No such construction.	N/A
2.10.8.1	Sample preparation and preliminary inspection	No such construction.	N/A
2.10.8.2	Thermal conditioning	No such construction.	N/A
2.10.8.3	Electric strength test	No such construction.	N/A
2.10.8.4	Abrasion resistance test	No such construction.	N/A
2.10.9	Thermal cycling	No such construction.	N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound	Pollution degree 2 is considered.	N/A
2.10.11	Tests for semiconductor devices and cemented joints	No such construction.	N/A
2.10.12	Enclosed and sealed parts	No hermetically sealed component.	N/A



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Clause	Requirement – Test	Result - Remark	Verdict
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3	WIRING, CONNECTIONS AND SUPPLY		P
3.1	General		P
3.1.1	Current rating and overcurrent protection	Internal wiring gauge is suitable for current intended to be carried.	P
3.1.2	Protection against mechanical damage	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
3.1.3	Securing of internal wiring	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
3.1.4	Insulation of conductors	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
3.1.5	Beads and ceramic insulators	Not used.	N/A
3.1.6	Screws for electrical contact pressure	No screws of insulating material for electrical connections, or where supplementary or reinforced insulation could be impaired by a metal replacement.	N/A
3.1.7	Insulating materials in electrical connections	No non-metallic materials in electrical connections.	N/A
3.1.8	Self-tapping and spaced thread screws	No self tapping screws are used.	N/A
3.1.9	Termination of conductors	No such terminal	N/A
	10 N pull test	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
3.1.10	Sleeving on wiring	Not used.	N/A

3.2	Connection to a mains supply		N/A
3.2.1	Means of connection	See below.	N/A



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Clause	Requirement – Test	Result - Remark	Verdict
3.2.1.1	Connection to an a.c. mains supply	Class III equipment. Not connected to a.c. mains directly.	N/A
3.2.1.2	Connection to a d.c. mains supply	The equipment is not for connection to a d.c. mains supply.	N/A
3.2.2	Multiple supply connections	Class III equipment. Not connected to the mains directly.	N/A
3.2.3	Permanently connected equipment	Not permanently connected equipment.	N/A
	Number of conductors, diameter of cable and conduits (mm)		—
3.2.4	Appliance inlets	No such device.	N/A
3.2.5	Power supply cords	No such power supply cords use.	N/A
3.2.5.1	AC power supply cords	No such power supply cords use.	N/A
	Type		—
	Rated current (A), cross-sectional area (mm ²), AWG		—
3.2.5.2	DC power supply cords	The equipment is not for connection to a d.c. mains supply.	N/A
3.2.6	Cord anchorages and strain relief	No such construction	N/A
	Mass of equipment (kg), pull (N)		—
	Longitudinal displacement (mm)		—
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards	No such construction	N/A
	Diameter or minor dimension D (mm); test mass (g)		—
	Radius of curvature of cord (mm)		—
3.2.9	Supply wiring space	No such construction	N/A
3.3	Wiring terminals for connection of external conductors		N/A
3.3.1	Wiring terminals	No such construction.	N/A
3.3.2	Connection of non-detachable power supply cords		N/A



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Clause	Requirement – Test	Result - Remark	Verdict
3.3.3	Screw terminals	No such construction.	N/A
3.3.4	Conductor sizes to be connected	No such construction.	N/A
	Rated current (A), cord/cable type, cross-sectional area (mm ²)		—
3.3.5	Wiring terminal sizes	No such construction.	N/A
	Rated current (A), type, nominal thread diameter (mm)		—
3.3.6	Wiring terminal design	No such construction.	N/A
3.3.7	Grouping of wiring terminals	No such construction.	N/A
3.3.8	Stranded wire		N/A

3.4	Disconnection from the mains supply		N/A
3.4.1	General requirement	Class III equipment. Not connected to the mains directly.	N/A
3.4.2	Disconnect devices	Class III equipment. Not connected to the mains directly.	N/A
3.4.3	Permanently connected equipment	The EUT is not permanently connected equipment.	N/A
3.4.4	Parts which remain energized	Class III equipment. Not connected to the mains directly.	N/A
3.4.5	Switches in flexible cords	No such flexible cords provided.	N/A
3.4.6	Number of poles - single-phase and d.c. equipment	Class III equipment. Not connected to the mains directly.	N/A
3.4.7	Number of poles - three-phase equipment	Class III equipment. Not connected to the mains directly.	N/A
3.4.8	Switches as disconnect devices	No such switches provided.	N/A
3.4.9	Plugs as disconnect devices	Class III equipment. Not connected to the mains directly.	N/A
3.4.10	Interconnected equipment	Interconnection to other devices by secondary SELV output only.	N/A



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Clause	Requirement – Test	Result - Remark	Verdict
3.4.11	Multiple power sources	Class III equipment. No such construction.	N/A

3.5	Interconnection of equipment		P
3.5.1	General requirements	See below.	P
3.5.2	Types of interconnection circuits	SELV circuit only connected to SELV circuit.	P
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection circuits.	N/A
3.5.4	Data ports for additional equipment		N/A

4	PHYSICAL REQUIREMENTS		P
4.1	Stability		N/A
	Angle of 10°	For the EUT, the mass is less than 7kg.	N/A
	Test force (N)	Not floor-standing equipment.	N/A

4.2	Mechanical strength		N/A
4.2.1	General	See below.	N/A
	Rack-mounted equipment.		N/A
4.2.2	Steady force test, 10 N	Class III equipment, supplied by SELV and there is no hazardous voltage or other relevant hazardous generated inside the EUT.	N/A
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N	Class III equipment, supplied by SELV and there is no hazardous voltage or other relevant hazardous generated inside the EUT.	N/A
4.2.5	Impact test	Class III equipment, supplied by SELV and there is no hazardous voltage or other relevant hazardous generated inside the EUT.	N/A
	Fall test		N/A
	Swing test		N/A



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Clause	Requirement – Test	Result - Remark	Verdict
4.2.6	Drop test; height (mm)	Class III equipment, supplied by SELV and there is no hazardous voltage or other relevant hazardous generated inside the EUT.	N/A
4.2.7	Stress relief test	Class III equipment, supplied by SELV and there is no hazardous voltage or other relevant hazardous generated inside the EUT.	N/A
4.2.8	Cathode ray tubes	No CRT inside the EUT.	N/A
	Picture tube separately certified	No CRT inside the EUT.	N/A
4.2.9	High pressure lamps	No high pressure lamps.	N/A
4.2.10	Wall or ceiling mounted equipment; force (N)	50N, 1 min. no hazardous after test.	P

4.3	Design and construction		P
4.3.1	Edges and corners	Edges and corners of the enclosure are rounded.	P
4.3.2	Handles and manual controls; force (N)	No handle provide.	N/A
4.3.3	Adjustable controls	No similar controls.	N/A
4.3.4	Securing of parts	No such parts	N/A
4.3.5	Connection by plugs and sockets	No mismatch of connectors	N/A
4.3.6	Direct plug-in equipment	The EUT is not direct plug-in equipment.	N/A
	Torque		—
	Compliance with the relevant mains plug standard		N/A
4.3.7	Heating elements in earthed equipment	No heating element.	N/A
4.3.8	Batteries	No batteries in the EUT.	N/A
	- Overcharging of a rechargeable battery	No batteries in the EUT.	N/A
	- Unintentional charging of a non-rechargeable battery	No batteries in the EUT.	N/A
	- Reverse charging of a rechargeable battery	No batteries in the EUT.	N/A
	- Excessive discharging rate for any battery	No batteries in the EUT.	N/A
4.3.9	Oil and grease	No oil and grease inside the equipment.	N/A



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Clause	Requirement – Test	Result - Remark	Verdict
4.3.10	Dust, powders, liquids and gases	The equipment is not intended to be exposed to dust, powers, liquids and gases.	N/A
4.3.11	Containers for liquids or gases	No container for liquids or gases provided.	N/A
4.3.12	Flammable liquids	No flammable liquids in the equipment.	N/A
	Quantity of liquid (l)	No flammable liquids in the equipment.	N/A
	Flash point (°C)	No flammable liquids in the equipment.	N/A
4.3.13	Radiation	See below.	N/A
4.3.13.1	General	See below.	N/A
4.3.13.2	Ionizing radiation	No ionizing radiation.	N/A
	Measured radiation (pA/kg)		—
	Measured high-voltage (kV)		—
	Measured focus voltage (kV)		—
	CRT markings		—
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No UV radiation.	N/A
	Part, property, retention after test, flammability classification	No UV radiation.	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation	No UV radiation.	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	LEDs only used for indication.	N/A
4.3.13.5.1	Lasers (including laser diodes)		N/A
	Laser class		—
4.3.13.5.2	Light emitting diodes (LEDs)		—
4.3.13.6	Other types		N/A

4.4	Protection against hazardous moving parts		N/A
4.4.1	General		N/A
4.4.2	Protection in operator access areas	No hazardous moving part in restricted access areas.	N/A
	Household and home/office document/media shredders	No hazardous moving part in restricted access areas.	N/A
4.4.3	Protection in restricted access locations	No hazardous moving part in restricted access areas.	N/A



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Clause	Requirement – Test	Result - Remark	Verdict
4.4.4	Protection in service access areas	No hazardous moving part in restricted access areas.	N/A
4.4.5	Protection against moving fan blades	No hazardous moving part in restricted access areas.	N/A
4.4.5.1	General	No hazardous moving part in restricted access areas.	N/A
	Not considered to cause pain or injury. a).....:		N/A
	Is considered to cause pain, not injury. b)		N/A
	Considered to cause injury. c)		N/A
4.4.5.2	Protection for users	No hazardous moving part in restricted access areas.	N/A
	Use of symbol or warning		N/A
4.4.5.3	Protection for service persons	No hazardous moving part in restricted access areas.	N/A
	Use of symbol or warning		N/A

4.5	Thermal requirements		P
4.5.1	General	See below.	P
4.5.2	Temperature tests	(see appended table 4.5)	P
	Normal load condition per Annex L		—
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat	No such construction inside the EUT.	N/A

4.6	Openings in enclosures		P
4.6.1	Top and side openings	No hazardous voltage or energy hazardous.	P
	Dimensions (mm)	(See appended table 4.6)	—
4.6.2	Bottoms of fire enclosures	The certified AC/DC adapter complied with cl. 2.5, it is not required a fire enclosure.	P
	Construction of the bottom, dimensions (mm) ..	(See appended table 4.6)	—



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Clause	Requirement – Test	Result - Remark	Verdict
4.6.3	Doors or covers in fire enclosures	The fire enclosure contains an operator removal cover which intended only for occasional use. The instructions provided in the user's manual for correct removal and reinstallation.	P
4.6.4	Openings in transportable equipment	Not transportable equipment.	N/A
4.6.4.1	Constructional design measures		N/A
	Dimensions (mm) :		—
4.6.4.2	Evaluation measures for larger openings		N/A
4.6.4.3	Use of metallized parts		N/A
4.6.5	Adhesives for constructional purposes	No adhesives for construction purposes.	N/A
	Conditioning temperature (°C), time (weeks)..... :		—

4.7	Resistance to fire		P
4.7.1	Reducing the risk of ignition and spread of flame	See below.	P
	Method 1, selection and application of components wiring and materials	Use of materials with the required flammability class, and select the components for simulation of faults with acceptable results.	P
	Method 2, application of all of simulated fault condition tests	Method 1 used.	N/A
4.7.2	Conditions for a fire enclosure	See below.	P
4.7.2.1	Parts requiring a fire enclosure	See below.	N/A
4.7.2.2	Parts not requiring a fire enclosure	Class III equipment, supplied by certified AC/DC adaptor which complying with LPS, and components are mounted on the min. V-1 class material. No fire enclosure required.	N/A
4.7.3	Materials		P
4.7.3.1	General	See below.	P



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Clause	Requirement – Test	Result - Remark	Verdict
4.7.3.2	Materials for fire enclosures	Class III equipment, supplied by certified AC/DC adaptor which complying with LPS, and components are mounted on the min. V-1 class material. No fire enclosure required.	N/A
4.7.3.3	Materials for components and other parts outside fire enclosures	No such parts.	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures	V-1 or better for PCB	P
4.7.3.5	Materials for air filter assemblies	No air filter provided.	N/A
4.7.3.6	Materials used in high-voltage components	No high-voltage component inside the equipment.	N/A

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		P
5.1	Touch current and protective conductor current		N/A
5.1.1	General	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
5.1.2	Configuration of equipment under test (EUT)	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
5.1.2.1	Single connection to an a.c. mains supply	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
5.1.2.2	Redundant multiple connections to an a.c. mains supply	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
5.1.3	Test circuit	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
5.1.4	Application of measuring instrument	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
5.1.5	Test procedure	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A



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Clause	Requirement – Test	Result - Remark	Verdict
5.1.6	Test measurements	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
	Supply voltage (V)		—
	Measured touch current (mA)		—
	Max. allowed touch current (mA)		—
	Measured protective conductor current (mA)		—
	Max. allowed protective conductor current (mA)...		—
5.1.7	Equipment with touch current exceeding 3,5 mA	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
5.1.7.1	General	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
5.1.7.2	Simultaneous multiple connections to the supply	No such construction.	N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	No connection to the telecommunication network and cable distribution systems.	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	No connection to the telecommunication network and cable distribution systems.	N/A
	Supply voltage (V)		—
	Measured touch current (mA)		—
	Max. allowed touch current (mA)		—
5.1.8.2	Summation of touch currents from telecommunication networks	No connection to the telecommunication network.	N/A
	a) EUT with earthed telecommunication ports	No connection to the telecommunication network.	N/A
	b) EUT whose telecommunication ports have no reference to protective earth	No connection to the telecommunication network.	N/A
5.2	Electric strength		N/A
5.2.1	General	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A



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Clause	Requirement – Test	Result - Remark	Verdict
5.2.2	Test procedure	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A

5.3	Abnormal operating and fault conditions		P
5.3.1	Protection against overload and abnormal operation	(See appended table 5.3)	P
5.3.2	Motors	No such component.	N/A
5.3.3	Transformers	No such component.	N/A
5.3.4	Functional insulation..... :	Method c) used. Result see appended table 5.3.	P
5.3.5	Electromechanical components	No electromechanical component.	N/A
5.3.6	Audio amplifiers in ITE :	No such parts.	N/A
5.3.7	Simulation of faults	(See appended table 5.3)	P
5.3.8	Unattended equipment	The equipment was not for unattended use.	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame in the equipment. No molten metal was emitted.	P
5.3.9.1	During the tests	No flame in the equipment. No molten metal was emitted.	P
5.3.9.2	After the tests	Class III equipment. Supplied by SELV and there are no hazardous voltage	N/A

6	CONNECTION TO TELECOMMUNICATION NETWORKS		N/A
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment		N/A
6.1.1	Protection from hazardous voltages		N/A
6.1.2	Separation of the telecommunication network from earth		N/A
6.1.2.1	Requirements	No connection to the telecommunication network.	N/A
	Supply voltage (V) :		—
	Current in the test circuit (mA) :		—
6.1.2.2	Exclusions :	No connection to the telecommunication network.	N/A



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Clause	Requirement – Test	Result - Remark	Verdict
6.2	Protection of equipment users from overvoltages on telecommunication networks		N/A
6.2.1	Separation requirements	No connection to the telecommunication network.	N/A
6.2.2	Electric strength test procedure	No connection to the telecommunication network.	N/A
6.2.2.1	Impulse test	No connection to the telecommunication network.	N/A
6.2.2.2	Steady-state test	No connection to the telecommunication network.	N/A
6.2.2.3	Compliance criteria	No connection to the telecommunication network.	N/A
6.3	Protection of the telecommunication wiring system from overheating		N/A
	Max. output current (A)	The EUT is not intended to supply other units via telecommunication line.	—
	Current limiting method		—
7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
7.1	General	No cable distribution systems inside the EUT.	N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	No cable distribution systems inside the EUT.	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	No cable distribution systems inside the EUT.	N/A
7.4	Insulation between primary circuits and cable distribution systems	No cable distribution systems inside the EUT.	N/A
7.4.1	General	No cable distribution systems inside the EUT.	N/A
7.4.2	Voltage surge test	No cable distribution systems inside the EUT.	N/A
7.4.3	Impulse test	No cable distribution systems inside the EUT.	N/A
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A



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Clause	Requirement – Test	Result - Remark	Verdict
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	The mass of the EUT is less than 18 kg.	N/A
A.1.1	Samples		—
	Wall thickness (mm)		—
A.1.2	Conditioning of samples; temperature (°C)		N/A
A.1.3	Mounting of samples		N/A
A.1.4	Test flame (see IEC 60695-11-3)		N/A
	Flame A, B, C or D		—
A.1.5	Test procedure		N/A
A.1.6	Compliance criteria		N/A
	Sample 1 burning time (s)		—
	Sample 2 burning time (s)		—
	Sample 3 burning time (s)		—
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material	The test method not used.	—
	Wall thickness (mm)		—
A.2.2	Conditioning of samples; temperature (°C)		N/A
A.2.3	Mounting of samples		N/A
A.2.4	Test flame (see IEC 60695-11-4)		N/A
	Flame A, B or C		—
A.2.5	Test procedure		N/A
A.2.6	Compliance criteria		N/A
	Sample 1 burning time (s)		—
	Sample 2 burning time (s)		—
	Sample 3 burning time (s)		—
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		N/A
	Sample 1 burning time (s)		—
	Sample 2 burning time (s)		—
	Sample 3 burning time (s)		—
A.3	Hot flaming oil test (see 4.6.2)	The test method not used.	N/A
A.3.1	Mounting of samples		N/A



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Clause	Requirement – Test	Result - Remark	Verdict
A.3.2	Test procedure		N/A
A.3.3	Compliance criterion		N/A

B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N/A
B.1	General requirements	No motor inside the EUT.	N/A
	Position		—
	Manufacturer		—
	Type		—
	Rated values		—
B.2	Test conditions	No motor inside the EUT.	N/A
B.3	Maximum temperatures	No motor inside the EUT.	N/A
B.4	Running overload test	No motor inside the EUT.	N/A
B.5	Locked-rotor overload test	No motor inside the EUT.	N/A
	Test duration (days)		—
	Electric strength test: test voltage (V)		—
B.6	Running overload test for d.c. motors in secondary circuits	No motor inside the EUT.	N/A
B.6.1	General	No motor inside the EUT.	N/A
B.6.2	Test procedure	No motor inside the EUT.	N/A
B.6.3	Alternative test procedure	No motor inside the EUT.	N/A
B.6.4	Electric strength test; test voltage (V)	No motor inside the EUT.	N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	No motor inside the EUT.	N/A
B.7.1	General	No motor inside the EUT.	N/A
B.7.2	Test procedure	No motor inside the EUT.	N/A
B.7.3	Alternative test procedure	No motor inside the EUT.	N/A
B.7.4	Electric strength test; test voltage (V)	No motor inside the EUT.	N/A
B.8	Test for motors with capacitors	No motor inside the EUT.	N/A
B.9	Test for three-phase motors	No motor inside the EUT.	N/A
B.10	Test for series motors	No motor inside the EUT.	N/A
	Operating voltage (V)		—

C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)	N/A
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IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
	Position	No such parts.	—
	Manufacturer		—
	Type		—
	Rated values		—
	Method of protection		—
C.1	Overload test		N/A
C.2	Insulation		N/A
	Protection from displacement of windings		N/A
D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		N/A
D.1	Measuring instrument	Class III equipment.	N/A
D.2	Alternative measuring instrument		N/A
E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)		N/A
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)		N/A
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		N/A
G.1	Clearances	Not used.	N/A
G.1.1	General	Not used.	N/A
G.1.2	Summary of the procedure for determining minimum clearances	Not used.	N/A
G.2	Determination of mains transient voltage (V)	Not used.	N/A
G.2.1	AC mains supply	Not used.	N/A
G.2.2	Earthed d.c. mains supplies	Not used.	N/A
G.2.3	Unearthed d.c. mains supplies	Not used.	N/A
G.2.4	Battery operation	Not used.	N/A
G.3	Determination of telecommunication network transient voltage (V)	Not used.	N/A
G.4	Determination of required withstand voltage (V)	Not used.	N/A
G.4.1	Mains transients and internal repetitive peaks	Not used.	N/A
G.4.2	Transients from telecommunication networks	Not used.	N/A



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Clause	Requirement – Test	Result - Remark	Verdict
G.4.3	Combination of transients	Not used.	N/A
G.4.4	Transients from cable distribution systems	Not used.	N/A
G.5	Measurement of transient voltages (V)	Not used.	N/A
	a) Transients from a mains supply	Not used.	N/A
	For an a.c. mains supply	Not used.	N/A
	For a d.c. mains supply	Not used.	N/A
	b) Transients from a telecommunication network	Not used.	N/A
G.6	Determination of minimum clearances	Not used.	N/A
H	ANNEX H, IONIZING RADIATION (see 4.3.13)		N/A
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		N/A
	Metal(s) used		—
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)		N/A
K.1	Making and breaking capacity	No thermal control in the EUT.	N/A
K.2	Thermostat reliability; operating voltage (V)	No thermal control in the EUT.	N/A
K.3	Thermostat endurance test; operating voltage (V)	No thermal control in the EUT.	N/A
K.4	Temperature limiter endurance; operating voltage (V)	No thermal control in the EUT.	N/A
K.5	Thermal cut-out reliability	No thermal control in the EUT.	N/A
K.6	Stability of operation	No thermal control in the EUT.	N/A
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)		P
L.1	Typewriters	No such device in the EUT	N/A
L.2	Adding machines and cash registers	No such device in the EUT	N/A
L.3	Erasers	No such device in the EUT	N/A
L.4	Pencil sharpeners	No such device in the EUT	N/A
L.5	Duplicators and copy machines	No such device in the EUT	N/A
L.6	Motor-operated files	No such device in the EUT	N/A
L.7	Other business equipment		P



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Clause	Requirement – Test	Result - Remark	Verdict

M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		N/A
M.1	Introduction	No phone ringing was generated in the EUT.	N/A
M.2	Method A	No phone ringing was generated in the EUT.	N/A
M.3	Method B	No phone ringing was generated in the EUT.	N/A
M.3.1	Ringling signal	No phone ringing was generated in the EUT.	N/A
M.3.1.1	Frequency (Hz)		—
M.3.1.2	Voltage (V)		—
M.3.1.3	Cadence; time (s), voltage (V)		—
M.3.1.4	Single fault current (mA)		—
M.3.2	Tripping device and monitoring voltage	No phone ringing was generated in the EUT.	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	No phone ringing was generated in the EUT.	N/A
M.3.2.2	Tripping device	No phone ringing was generated in the EUT.	N/A
M.3.2.3	Monitoring voltage (V)	No phone ringing was generated in the EUT.	N/A

N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)		N/A
N.1	ITU-T impulse test generators	Not used.	N/A
N.2	IEC 60065 impulse test generator	Not used.	N/A

P	ANNEX P, NORMATIVE REFERENCES		—
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Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)		N/A
	- Preferred climatic categories	NO	N/A
	- Maximum continuous voltage		N/A
	- Combination pulse current		N/A
	Body of the VDR Test according to IEC60695-11-5.....		N/A
	Body of the VDR. Flammability class of material (min V-1).....		N/A



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Clause	Requirement – Test	Result - Remark	Verdict
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R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	Not used.	N/A
R.2	Reduced clearances (see 2.10.3)	Not used.	N/A

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N/A
S.1	Test equipment	No TNV circuit.	N/A
S.2	Test procedure	No TNV circuit.	N/A
S.3	Examples of waveforms during impulse testing	No TNV circuit.	N/A

T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N/A
		IPX0 product.	—

U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		N/A
			—

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)		N/A
V.1	Introduction	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
V.2	TN power distribution systems	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A

W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N/A
W.1	Touch current from electronic circuits	No touch current summation.	N/A
W.1.1	Floating circuits	No touch current summation.	N/A
W.1.2	Earthed circuits	No touch current summation.	N/A
W.2	Interconnection of several equipments	No touch current summation.	N/A
W.2.1	Isolation	No touch current summation.	N/A
W.2.2	Common return, isolated from earth	No touch current summation.	N/A
W.2.3	Common return, connected to protective earth	No touch current summation.	N/A



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Clause	Requirement – Test	Result - Remark	Verdict

X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N/A
X.1	Determination of maximum input current		N/A
X.2	Overload test procedure		N/A

Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		N/A
Y.1	Test apparatus	Not used.	N/A
Y.2	Mounting of test samples	Not used.	N/A
Y.3	Carbon-arc light-exposure apparatus	Not used.	N/A
Y.4	Xenon-arc light exposure apparatus	Not used.	N/A

Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)		N/A
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AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N/A
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BB	ANNEX BB, CHANGES IN THE SECOND EDITION		—
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CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters		N/A
CC.1	General		N/A
CC.2	Test program 1.....		N/A
CC.3	Test program 2.....		N/A
CC.4	Test program 3.....		N/A
CC.5	Compliance.....		N/A

DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment		N/A
DD.1	General		N/A
DD.2	Mechanical strength test, variable N.....		N/A
DD.3	Mechanical strength test, 250N, including end stops.....		N/A
DD.4	Compliance.....		N/A



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Clause	Requirement – Test	Result - Remark	Verdict
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EE	ANNEX EE, Household and home/office document/media shredders		N/A
EE.1	General		N/A
EE.2	Markings and instructions		N/A
	Use of markings or symbols.....:		N/A
	Information of user instructions, maintenance and/or servicing instructions.....:		N/A
EE.3	Inadvertent reactivation test.....:		N/A
EE.4	Disconnection of power to hazardous moving parts:		N/A
	Use of markings or symbols.....:		N/A
EE.5	Protection against hazardous moving parts		N/A
	Test with test finger (Figure 2A):		N/A
	Test with wedge probe (Figure EE1 and EE2):		N/A



IEC 60950-1																																																																														
Clause	Requirement – Test				Result - Remark	Verdict																																																																								
Group differences																																																																														
COMMON MODIFICATIONS																																																																														
Contents	Add the following annexes: Annex ZA (normative) Normative references to international publications with their corresponding European publications Annex ZB (normative) Special national conditions Annex ZC (informative) A-deviations					P																																																																								
Contents (A2: 2013)	Add the following: Annex ZD (informative) IEC and CENELEC code designations for flexible cords					P																																																																								
Whole document (A2: 2013)	Delete all the “country” notes in the reference document according to the following list: <table border="1"><tr><td>2.7.1</td><td>Note *</td><td>2.10.3.1</td><td>Note 2</td><td>6.2.2</td><td>Note</td></tr></table> * Note of secretary: Text of Common Modification remains unchanged For special national conditions, see Annex ZB.					2.7.1	Note *	2.10.3.1	Note 2	6.2.2	Note	P																																																																		
2.7.1	Note *	2.10.3.1	Note 2	6.2.2	Note																																																																									
General	Delete all the “country” notes in the reference document according to the following list: <table><tr><td>1.4.8</td><td>Note 2</td><td>1.5.1</td><td>Note 2 & 3</td><td>1.5.7.1</td><td>Note</td></tr><tr><td>1.5.8</td><td>Note 2</td><td>1.5.9.4</td><td>Note</td><td>1.7.2.1</td><td>Note 4, 5 & 6</td></tr><tr><td>2.2.3</td><td>Note</td><td>2.2.4</td><td>Note</td><td>2.3.2</td><td>Note</td></tr><tr><td>2.3.2.1</td><td>Note 2</td><td>2.3.4</td><td>Note 2</td><td>2.6.3.3</td><td>Note 2 & 3</td></tr><tr><td>2.7.1</td><td>Note</td><td>2.10.3.2</td><td>Note 2</td><td>2.10.5.13</td><td>Note 3</td></tr><tr><td>3.2.1.1</td><td>Note</td><td>3.2.4</td><td>Note</td><td>3.2.5.1</td><td>Note 2</td></tr><tr><td>4.3.6</td><td>Note 1 & 2</td><td>4.7</td><td>Note 4</td><td>4.7.2.2</td><td>Note</td></tr><tr><td>4.7.3.1</td><td>Note 2</td><td>5.1.7.1</td><td>Note 3 & 4</td><td>5.3.7</td><td>Note 1</td></tr><tr><td>6</td><td>Note 2 & 5</td><td>6.1.2.1</td><td>Note 2</td><td>6.1.2.2</td><td>Note</td></tr><tr><td>6.2.2</td><td>Note</td><td>6.2.2.1</td><td>Note 2</td><td>6.2.2.2</td><td>Note</td></tr><tr><td>7.1</td><td>Note 3</td><td>7.2</td><td>Note</td><td>7.3</td><td>Note 1 & 2</td></tr><tr><td>G.2.1</td><td>Note 2</td><td>Annex H</td><td>Note 2</td><td></td><td></td></tr></table>					1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	2.2.3	Note	2.2.4	Note	2.3.2	Note	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	3.2.1.1	Note	3.2.4	Note	3.2.5.1	Note 2	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	4.7.3.1	Note 2	5.1.7.1	Note 3 & 4	5.3.7	Note 1	6	Note 2 & 5	6.1.2.1	Note 2	6.1.2.2	Note	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	G.2.1	Note 2	Annex H	Note 2			P
1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note																																																																									
1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6																																																																									
2.2.3	Note	2.2.4	Note	2.3.2	Note																																																																									
2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3																																																																									
2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3																																																																									
3.2.1.1	Note	3.2.4	Note	3.2.5.1	Note 2																																																																									
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4.7.3.1	Note 2	5.1.7.1	Note 3 & 4	5.3.7	Note 1																																																																									
6	Note 2 & 5	6.1.2.1	Note 2	6.1.2.2	Note																																																																									
6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note																																																																									
7.1	Note 3	7.2	Note	7.3	Note 1 & 2																																																																									
G.2.1	Note 2	Annex H	Note 2																																																																											
General (A1:2010)	In IEC 60950-1:2005/A1 delete all the “country” notes according to the following list: - 1.5.7.1: Note - 6.1.2.1: Note 2 - 6.2.2.1: Note 2 - EE.3: Note					N/A																																																																								
1.1.1 (A1:2010)	Replace the text of NOTE 3 by the following NOTE 3 The requirements of EN 60065 may also be used to meet safety requirements for multimedia equipment. See IEC Guide 112, Guide on the safety of multimedia equipment. For television sets EN 60065 applies.					N/A																																																																								



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Clause	Requirement – Test	Result - Remark	Verdict
1.2.3 (A1:2010)	Add the following definition: 1.2.3.Z1 PORTABLE SOUND SYSTEM small battery powered audio equipment: – whose prime purpose is to listen to recorded or broadcasted sound; and – that uses headphones or earphones that can be worn in or on or around the ears; and – that allows the user to walk around NOTE Examples are mini-disk or CD players; MP3 audio players or similar equipment.	No such equipment	N/A
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for “one package equipment”, and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.	No such equipment	N/A
1.5.1	Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC		P
1.7.2.1	Add the following NOTE: NOTE Z1 In addition, the instructions shall include, as far as applicable, a warning that excessive sound pressure from earphones and headphones can cause hearing loss		N/A



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Clause	Requirement – Test	Result - Remark	Verdict
1.7.2.1 (A1:2010)	Delete NOTE Z1. Add the following paragraph at the end of the subclause: In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.		N/A
2.7.1	Replace the subclause as follows: Basic requirements To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
2.7.2	This subclause has been declared 'void'.		N/A
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N/A



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Clause	Requirement – Test	Result - Remark	Verdict						
3.2.5.1	<p>Replace</p> <p>“60245 IEC 53” by “H05 RR-F”;</p> <p>“60227 IEC 52” by “H03 VV-F or H03 VVH2-F”;</p> <p>“60227 IEC 53” by “H05 VV-F or H05 VVH2-F2”.</p> <p>In Table 3B, replace the first four lines by the following:</p> <table><tr><td>Up to and including 6</td><td>0,75^{a)}</td></tr><tr><td>Over 6 up to and including 10</td><td>(0,75)^{b)} 1,0</td></tr><tr><td>Over 10 up to and including 16</td><td>(1,0)^{c)} 1,5</td></tr></table> <p>In the conditions applicable to Table 3B delete the words “in some countries” in condition^{a)}.</p> <p>In NOTE 1, applicable to Table 3B, delete the second sentence.</p>	Up to and including 6	0,75 ^{a)}	Over 6 up to and including 10	(0,75) ^{b)} 1,0	Over 10 up to and including 16	(1,0) ^{c)} 1,5	No power supply cord used.	N/A
Up to and including 6	0,75 ^{a)}								
Over 6 up to and including 10	(0,75) ^{b)} 1,0								
Over 10 up to and including 16	(1,0) ^{c)} 1,5								
3.2.5.1 (A2: 2013)	<p>Add the following Note:</p> <p>NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD.</p>	No power supply cord used.	N/A						
3.3.4	<p>In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:</p> <table><tr><td>Over 10 up to and including 16</td><td>1,5 to 2,5</td><td>1,5 to 4</td></tr></table> <p>Delete the fifth line: conductor sizes for 13 to 16 A.</p>	Over 10 up to and including 16	1,5 to 2,5	1,5 to 4	No power supply cord used.	N/A			
Over 10 up to and including 16	1,5 to 2,5	1,5 to 4							
4.3.13.6	<p>Add the following NOTE:</p> <p>NOTE Z1 Attention is drawn to 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz. Standards taking into account this Recommendation which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.</p>	No other type of source inside the EUT.	N/A						



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Clause	Requirement – Test	Result - Remark	Verdict
4.3.13.6 (A1:2010)	<p>Replace the existing NOTE by the following:</p> <p>NOTE Z1 Attention is drawn to :</p> <p>1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and</p> <p>2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artificial optical radiation).</p> <p>Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.</p>		N/A
Annex H	<p>Replace the last paragraph of this annex by:</p> <p>At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 μSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.</p> <p>Replace the notes as follows:</p> <p>NOTE These values appear in Directive 96/29/Euratom.</p> <p>Delete NOTE 2.</p>		N/A



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Clause	Requirement – Test	Result - Remark	Verdict
Biblio-graphy	<p>Add the following standards:</p> <p>EN 50332-1:2000, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for “one package equipment”</p> <p>EN 50332-2:2003, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Matching of sets with headphones if either or both are offered separately</p> <p>Add the following notes for the standards indicated:</p> <p>IEC 60127 NOTE Harmonized in EN 60127 series (not modified).</p> <p>IEC 60369-2-1 NOTE Harmonized as HD 60369-2-1:2005 (modified).</p> <p>IEC 60364-4-41 NOTE Harmonized as HD 384.4.41 S2:1996 (modified).</p> <p>IEC 60529 NOTE Harmonized as EN 60529:1991 (not modified).</p> <p>IEC 60664-4 NOTE Harmonized as EN 60664-4:2006 (not modified).</p> <p>IEC 60728-11 NOTE Harmonized as EN 60728-11:2005 (modified).</p> <p>IEC 60896-21 NOTE Harmonized as EN 60896-21:2004 (not modified).</p> <p>IEC 60896-22 NOTE Harmonized as EN 60896-22:2004 (not modified).</p> <p>IEC 61032 NOTE Harmonized as EN 61032:1998 (not modified).</p>	Added	P



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Clause	Requirement – Test	Result - Remark	Verdict
	IEC 61140 NOTE Harmonized as EN 61140:2002 (not modified). IEC 61558-1 NOTE Harmonized as EN 61558-1:2005 (not modified). IEC 61643-21 NOTE Harmonized as EN 61643-21:2001 (not modified). IEC 61643-311 NOTE Harmonized as EN 61643-311:2001 (not modified). IEC 61643-321 NOTE Harmonized as EN 61643-321:2002 (not modified). IEC 61643-331 NOTE Harmonized as EN 61643-331:2003 (not modified). IEC 61965 NOTE Harmonized as EN 61965:2003 (not modified). ISO 4892 NOTE Harmonized in EN ISO 4892 series (not modified).	Added	P
Bibliography (A1:2010)	Add the following note for the standard indicated: IEC 60908 NOTE Harmonized as EN 60908.	Added	P



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ZA (A2: 2013)	Normative references to international publications with their corresponding European publications <p>The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.</p> <p>NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.</p> <table> <tr> <th><u>Publication</u></th><th><u>Year</u></th><th><u>Title</u></th><th><u>EN/HD</u></th><th><u>Year</u></th></tr> <tr> <td>-</td><td>-</td><td>Sound system equipment: Headphones and earphones associated with portable audio equipment — Maximum sound pressure level measurement methodology and limit considerations — Part 1: General method for "one package equipment"</td><td>EN 50332-1</td><td>-</td></tr> <tr> <td>-</td><td>-</td><td>Sound system equipment: Headphones and earphones associated with portable audio equipment — Maximum sound pressure level measurement methodology and limit considerations — Part 2: Matching of sets with headphones if either or both are offered separately</td><td>EN 50332-2</td><td>-</td></tr> <tr> <td>-</td><td>-</td><td>Insulating, sheathing and covering materials for low-voltage energy cables</td><td>EN 50363</td><td>all parts</td></tr> <tr> <td>-</td><td>-</td><td>Electrical test methods for low voltage energy cables</td><td>EN 50395</td><td>-</td></tr> <tr> <td>-</td><td>-</td><td>Non electrical test methods for low voltage energy cables</td><td>EN 50396</td><td>-</td></tr> <tr> <td>IEC 60065 (mod)</td><td>2001</td><td rowspan="5">Audio, video and similar electronic apparatus – Safety requirements</td><td>EN 60065</td><td>2002</td></tr> <tr> <td>A1 (mod)</td><td>2005</td><td>A1</td><td>2006</td></tr> <tr> <td></td><td></td><td>A11</td><td>2008</td></tr> <tr> <td>A2 (mod)</td><td>2010</td><td>A2</td><td>2010</td></tr> <tr> <td></td><td></td><td>A12</td><td>2011</td></tr> <tr> <td>IEC 60068-2-78</td><td>-</td><td>Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state</td><td>EN 60068-2-78</td><td>-</td></tr> </table>			<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>	-	-	Sound system equipment: Headphones and earphones associated with portable audio equipment — Maximum sound pressure level measurement methodology and limit considerations — Part 1: General method for "one package equipment"	EN 50332-1	-	-	-	Sound system equipment: Headphones and earphones associated with portable audio equipment — Maximum sound pressure level measurement methodology and limit considerations — Part 2: Matching of sets with headphones if either or both are offered separately	EN 50332-2	-	-	-	Insulating, sheathing and covering materials for low-voltage energy cables	EN 50363	all parts	-	-	Electrical test methods for low voltage energy cables	EN 50395	-	-	-	Non electrical test methods for low voltage energy cables	EN 50396	-	IEC 60065 (mod)	2001	Audio, video and similar electronic apparatus – Safety requirements	EN 60065	2002	A1 (mod)	2005	A1	2006			A11	2008	A2 (mod)	2010	A2	2010			A12	2011	IEC 60068-2-78	-	Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state	EN 60068-2-78	-	P
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	<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>	P
	IEC 60073	-	Basic and safety principles for man-machine interface, marking and identification – Coding principles for indication devices and actuators	EN 60073	-	
	IEC/TR 60083	-	Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC	-	-	
	IEC 60085	2004	Electrical insulation – Thermal evaluation and designation	EN 60085	2004 ¹⁾	
	IEC 60112	-	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	EN 60112	-	
	IEC 60127-1	-	Miniature fuses – Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links	EN 60127-1	-	
	IEC 60227-1	2007	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 1: General requirements	- ²⁾	-	
	IEC 60227-2 A1	1997 2003	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 2: Test methods	- ²⁾	-	
	IEC 60245	all parts	Rubber insulated cables – Rated voltages up to and including 450/750V	- ³⁾	-	
	IEC 60309	all parts	Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements	EN 60309	all parts	
	IEC 60317	all parts	Specifications for particular types of winding wires	EN 60317	all parts	
	IEC 60317-43	-	Specifications for particular types of winding wires – Part 43: Aromatic polyimide tape wrapped round copper wire, class 240	EN 60317-43	-	
1) IEC 60085:2004 is superseded by IEC 60085:2007 which is harmonised as EN 60085:2008.						
2) The HD 21 series is related to, but not directly equivalent with the IEC 60227 series. Also EN 50363, EN 50395 and EN 50396 are to be taken into account.						
3) The HD 22 series is related to, but not directly equivalent with the IEC 60245 series. Also EN 50363, EN 50395 and EN 50396 are to be taken into account.						



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	<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>	<u>P</u>
	IEC 60320	all parts	Appliance couplers for household and similar general purposes	EN 60320	all parts	
	IEC 60364-1 (mod)	2001	Electrical installations of buildings – Part 1: Fundamental principles, assessment of general characteristics, definitions	HD 384.1 S2	2001	
	IEC 60384-14	2005	Fixed capacitors for use in electronic equipment – Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	EN 60384-14	2005	
	IEC 60417	Data-base	Graphical symbols for use on equipment	-	-	
	IEC 60664-1 A1 A2	1992 2000 2002	Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests	EN 60664-1	2003 ⁴⁾	
	IEC 60695-2-11	-	Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products	EN 60695-2-11	-	
	IEC 60695-2-20	-	Fire hazard testing – Part 2-20: Glowing/hot-wire based test methods – Hot-wire coil ignitability – Apparatus, test method and guidance	-	-	
	IEC 60695-10-2	-	Fire hazard testing – Part 10-2: Abnormal heat – Ball pressure test	EN 60695-10-2	-	
	IEC 60695-10-3	-	Fire hazard testing – Part 10-3: Abnormal heat – Mould stress relief distortion test	EN 60695-10-3	-	
	IEC 60695-11-3	-	Fire hazard testing – Part 11-3: Test flames –500 W flames – Apparatus and confirmational test methods	EN 60695-11-3	-	
	IEC 60695-11-4	-	Fire hazard testing – Part 11-4: Test flames –50 W flame – Apparatus and confirmational test method	EN 60695-11-4	-	
	4) IEC 60664-1:1992 is superseded by IEC 60664-1:2007 which is harmonised as EN 60664-1:2007.					



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	<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>	P
	IEC 60695-11-5	2004	Fire hazard testing – Part 11-5: Test flames – Needle- flame test method – Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2004	
	IEC 60695-11-10	-	Fire hazard testing – Part 11-10: Test flames – 50 W horizontal and vertical flame test methods	EN 60695-11-10	-	
	IEC 60695-11-20	-	Fire hazard testing – Part 11-20: Test flames – 500 W flame test methods	EN 60695-11-20	-	
	IEC 60730-1 (mod) A1	1999 2003	Automatic electrical controls for household and similar use – Part 1: General requirements	EN 60730-1 A1	2000 ⁵⁾ 2004	
	IEC 60747-5-5	2007	Semiconductor devices – Discrete devices – Part 5-5: Optoelectronic devices – Photocouplers	EN 60747-5-5	2011	
	IEC 60825-1	-	Safety of laser products – Part 1: Equipment classification and requirements	EN 60825-1	-	
	IEC 60825-2	-	Safety of laser products – Part 2: Safety of optical fibre communication systems (OFCS)	EN 60825-2	-	
	IEC/TR 60825-9	-	Safety of laser products – Part 9: Compilation of maximum permissible exposure to incoherent optical radiation	-	-	
	IEC 60825-12	-	Safety of laser products – Part 12: Safety of free space optical communication systems used for transmission of information	EN 60825-12	-	
	IEC 60851-3	2009	Winding wires – Test methods – Part 3: Mechanical properties	EN 60851-3	2009	
	IEC 60851-5	2008	Winding wires – Test methods – Part 5: Electrical properties	EN 60851-5	2008	
	IEC 60851-6 A1 A2	1996 1997 2003	Winding wires – Test methods – Part 6: Thermal properties	EN 60851-6 A1 A2	1996 1997 2004	
	5) IEC 60730-1:1999 is superseded by IEC 60730-1:2000 which is harmonised as EN 60730-1:2011, modified.					



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	<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>	<u>P</u>
	IEC 60885-1	1987	Electrical test methods for electric cables – Part 1: Electrical tests for cables, cords and wires for voltages up to and including 450/750 V	-	-	
	IEC 60906-1	-	IEC system of plugs and socket-outlets for household and similar purposes – Part 1: Plugs and socket-outlets 16 A 250 V a.c.	-	-	
	IEC 60906-2	-	IEC system of plugs and socket-outlets for household and similar purposes – Part 2: Plugs and socket-outlets 15 A 125 V a.c. and 20 A 125 V a.c.	-	-	
	IEC 60947-1	-	Low-voltage switchgear and controlgear – Part 1: General rules	EN 60947-1	-	
	IEC 60990	1999	Methods of measurement of touch current and protective conductor current	EN 60990	1999	
	IEC 60998-1	-	Connecting devices for low-voltage circuits for household and similar purposes – Part 1: General requirements	EN 60998-1	-	
	IEC 60999-1	-	Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units – Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 mm ² (included)	EN 60999-1	-	
	IEC 60999-2	-	Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units – Part 2: Particular requirements for clamping units for conductors above 35 mm ² up to 300 mm ² (included)	EN 60999-2	-	
	IEC 61051-2	1991	Varistors for use in electronic equipment – Part 2: Sectional specification for surge suppression varistors	-	-	
	IEC 61058-1 (mod) A1 A2	2000 2001 2007	Switches for appliances – Part 1: General requirements	EN 61058-1 A2	2002 2008	



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	<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>	P
	IEC 62133	2012	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications	EN 62133	2013	
	IEC 62368-1	-	Audio/video, information and communication technology equipment – Part 1: Safety requirements	FprEN 62368	-	
	IEC 62471 (mod)	2006	Photobiological safety of lamps and lamp systems	EN 62471	2008	
	ISO 178	-	Plastics - Determination of flexural properties	EN ISO 178	-	
	ISO 179	all parts	Plastics - Determination of Charpy impact properties	EN ISO 179	all parts	
	ISO 180	-	Plastics - Determination of Izod impact strength	EN ISO 180	-	
	ISO 261	-	ISO general purpose metric screw threads - General plan	-	-	
	ISO 262	-	ISO general purpose metric screw threads - Selected sizes for screws, bolts and nuts	-	-	
	ISO 527	all parts	Plastics – Determination of tensile properties	EN ISO 527	all parts	
	ISO 3864	all parts	Graphical symbols – Safety colours and safety signs	-	-	
	ISO 4892-1	-	Plastics – Methods of exposure to laboratory light sources – Part 1: General guidance	EN ISO 4892-1	-	
	ISO 4892-2	-	Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps	EN ISO 4892-2	-	
	ISO 4892-4	-	Plastics – Methods of exposure to laboratory light sources – Part 4: Open-flame carbon-arc lamps	-	-	
	ISO 7000	-	Graphical symbols for use on equipment – Registered symbols	-	-	
	ISO 8256	-	Plastics – Determination of tensile-impact strength	EN ISO 8256	-	



**BUREAU
VERITAS**

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	<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>	<u>P</u>
	ISO 9772	-	Cellular plastics – Determination of horizontal burning characteristics of small specimens subjected to a small flame	-	-	
	ISO 9773	-	Plastics – Determination of burning behaviour of thin flexible vertical specimens in contact with a small-flame ignition source	EN ISO 9773	-	
	ITU-T Recommendation K44	-	Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents – Basic Recommendation	-	-	



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ZB	Special national conditions Special national condition: National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions. NOTE If it affects harmonization, it forms part of the European Standard. For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.		P
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		N/A
1.2.13.14 (A11:2009)	Add as new SNC: In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.		N/A
1.5.7.1 (A11:2009)	Replace the existing SNC by the following: In Finland, Norway and Sweden , resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	Class III equipment. Supplied by SELV and not connected to the mains directly.	N/A
1.5.9.4	In Finland, Norway and Sweden , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		N/A



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1.7.2.1 (A2: 2013)	<p>In Denmark, Finland, Norway and Sweden, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.</p> <p>The marking text in the applicable countries shall be as follows:</p> <p>In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."</p> <p>In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"</p> <p>In Norway: "Apparatet må tilkoples jordet stikkontakt"</p> <p>In Sweden: "Apparaten skall anslutas till jordat uttag"</p>	No such construction	N/A
1.7.5 (A2: 2013)	<p>In Denmark, socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2-D1:2011.</p> <p>For class I equipment the following Standard Sheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exception for STATIONARY EQUIPMENT where the socket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a.</p> <p>Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with by DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b.</p> <p>Justification the Heavy Current Regulations, 6c</p>		N/A
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N/A
2.3.2	In Finland, Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	No TNV circuit	N/A



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2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	No TNV circuit	N/A
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.	Class III equipment, no power supply cord used.	N/A
2.7.1	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.		N/A
2.10.5.13	In Finland, Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.		N/A
3.2.1.1	<p>In Switzerland, supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:</p> <p>SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A</p> <p>In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:</p> <p>SEV 5932-2.1998 Plug Type 25 3L+N+PE 230/400 V, 16 A SEV 5933-2.1998 Plug Type 21 L+N 250 V, 16 A SEV 5934-2.1998 Plug Type 23 L+N+PE 250 V, 16 A</p>	Class III equipment, no power supply cord used.	N/A



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3.2.1.1 (A2: 2013)	<p>In Denmark, supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1.</p> <p>CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.</p> <p>If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.</p> <p>Justification the Heavy Current Regulations, 6c</p>	Class III equipment, no power supply cord used.	N/A
3.2.1.1	<p>In Spain, supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.</p> <p>Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.</p> <p>CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994.</p> <p>If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.</p>	Class III equipment, no power supply cord used.	N/A



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3.2.1.1	In the United Kingdom , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations. NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	Class III equipment, no power supply cord used.	N/A
3.2.1.1	In Ireland , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.	Class III equipment, no power supply cord used.	N/A
3.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.		N/A
3.2.5.1	In the United Kingdom , a power supply cord with conductor of 1,25 mm ² is allowed for equipment with a rated current over 10 A and up to and including 13 A.	Class III equipment, no power supply cord used.	N/A
3.3.4	In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is: • 1,25 mm ² to 1,5 mm ² nominal cross-sectional area.	Class III equipment, no power supply cord used.	N/A
4.3.6	In the United Kingdom , the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	The EUT is not direct plug-in equipment.	N/A



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4.3.6	In Ireland , DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.	The EUT is not direct plug-in equipment.	N/A
5.1.7.1	In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: <ul style="list-style-type: none">• STATIONARY PLUGGABLE EQUIPMENT TYPE A that<ul style="list-style-type: none">○ is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and○ has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and○ is provided with instructions for the installation of that conductor by a SERVICE PERSON;• STATIONARY PLUGGABLE EQUIPMENT TYPE B;• STATIONARY PERMANENTLY CONNECTED EQUIPMENT.	No such apparatus	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
6.1.2.1 (A1:2010)	<p>In Finland, Norway and Sweden, add the following text between the first and second paragraph of the compliance clause:</p> <p>If this insulation is solid, including insulation forming part of a component, it shall at least consist of either</p> <ul style="list-style-type: none">- two layers of thin sheet material, each of which shall pass the electric strength test below, or- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. <p>Alternatively for components, there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition</p> <ul style="list-style-type: none">- passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and- is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV. <p>It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).</p> <p>It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.</p> <p>A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none">- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1;- the additional testing shall be performed on all the test specimens as described in EN 60384-14;- the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	No connection to the telecommunication network.	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
6.1.2.2	In Finland, Norway and Sweden , the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.	No connection to the telecommunication network.	N/A
7.2	In Finland, Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	No cable distribution systems inside the EUT.	N/A
7.3 (A11:2009)	Delete the existing SNC for Norway and Sweden (based on NOTE 1 of IEC 60950-1:2005 + corr. 1). Add as new SNC (based on future NOTE 3 of IEC 60950-1:200X): In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	No cable distribution systems inside the EUT.	N/A
7.3	In Norway , for installation conditions see EN 60728-11:2005.	No cable distribution systems inside the EUT.	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
ZC	A-deviations A-deviation: National deviation due to regulations, the alteration of which is for the time being outside the competence of the CENELEC national member. This European Standard falls under Directives RTTED (1999/5/EC) and LVD (2006/95/EC). NOTE (from CEN/CENELEC IR Part 2:2002 , 2.17) Where standards fall under EC Directives, it is the view of the Commission of the European Communities (OJ No C 59, 1982-03-09) that the effect of the decision of the Court of Justice in case 815/79 Cremonini/Vrankovich (European Court Reports 1980, p. 3583) is that compliance with A-deviations is no longer mandatory and that the free movement of products complying with such a standard should not be restricted except under the safeguard procedure provided for in the relevant Directive. A-deviations in an EFTA-country are valid instead of the relevant provisions of the European Standard in that country until they have been removed.		N/A
1.5.1	Switzerland (Ordinance on environmentally hazardous substances SR 814.081, Annex 1.7, Mercury - Annex 1.7 of SR 814.81 applies for mercury.) Add the following: NOTE In Switzerland , switches containing mercury such as thermostats, relays and level controllers are not allowed.		N/A
1.7.2.1	Germany (Gesetz über technische Arbeitsmittel und Verbraucherprodukte (Geräte- und Produktsicherheitsgesetz – GPSG) [Law on technical labour equipment and consumer products], of 6th January 2004, Section 2, Article 4, Clause (4), Item 2). If for the assurance of safety and health certain rules during use, amending or maintenance of a technical labour equipment or readymade consumer product are to be followed, a manual in German language has to be delivered when placing the product on the market. Of this requirement, rules for use even only by SERVICE PERSONS are not exempted.		N/A
1.7.13	Switzerland (Ordinance on chemical hazardous risk reduction SR 814.81, Annex 2.15 Batteries) Annex 2.15 of SR 814.81 applies for batteries.		N/A
(A12:2011)	Zx. Protection against excessive sound pressure from personal music players		N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
	<p>Zx.1 General</p> <p>This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players.</p> <p>A personal music player is a portable equipment for personal use, that:</p> <ul style="list-style-type: none">- is designed to allow the user to listen to recorded or broadcast sound or video; and- primarily uses headphones or earphones that can be worn in or on or around the ears; and- allows the user to walk around while in use. <p>NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA\$s or similar equipment.</p> <p>A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause.</p> <p>The requirements in this sub-clause are valid for music or video mode only.</p> <p>The requirements do not apply:</p> <ul style="list-style-type: none">- while the personal music player is connected to an external amplifier; or- while the headphones or earphones are not used. <p>NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player.</p> <p>The requirements do not apply to:</p> <ul style="list-style-type: none">- hearing aid equipment and professional equipment; <p>NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.</p>	No such equipment	N/A



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IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
	<p>- analogue personal music players (personal music players without any kind of digital processing of the sound signal) that are brought to the market before the end of 2015</p> <p>NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.</p> <p>For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.</p>	No such equipment	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
	<p>Zx.2 Equipment requirements</p> <p>No safety provision is required for equipment that complies with the following:</p> <ul style="list-style-type: none">- equipment provided as a package (personal music player with its listening device), where the acoustic output $L_{Aeq,T}$ is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and- a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. <p>NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level $L_{Aeq,T}$ is meant. See also Zx.5 and Annex Zx.</p> <p>All other equipment shall:</p> <ul style="list-style-type: none">a) protect the user from unintentional acoustic outputs exceeding those mentioned above; andb) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; andc) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time; and <p>NOTE 2 Examples of means include visual or audible signals. Action from the user is always required.</p>	No such equipment	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
	<p>NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long the personal music player has been switched off.</p> <p>d) have a warning as specified in Zx.3; and</p> <p>e) not exceed the following:</p> <p>1) equipment provided as a package (player with its listening device), the acoustic output shall be ≤ 100 dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and</p> <p>2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be ≤ 150 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1.</p> <p>For music where the average sound pressure (long term $L_{Aeq,T}$) measured over the duration of the song is lower than the average produced by the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. In this case T becomes the duration of the song.</p> <p>NOTE 4 Classical music typically has an average sound pressure (long term $L_{Aeq,T}$) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA.</p> <p>For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only 65 dBA, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dBA.</p>	No such equipment	N/A

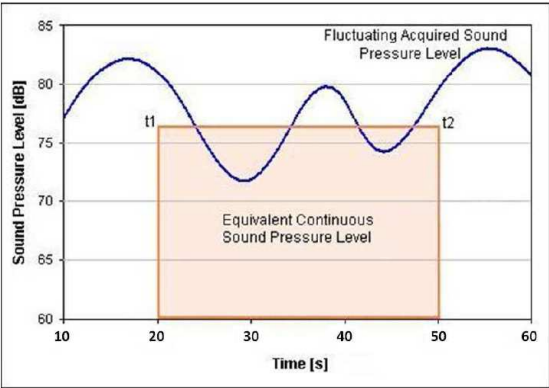


IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
	<p>Zx.3 Warning</p> <p>The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following:</p> <ul style="list-style-type: none"> - the symbol of Figure 1 with a minimum height of 5 mm; and - the following wording, or similar: <p>“To prevent possible hearing damage, do not listen at high volume levels for long periods.”</p> <div data-bbox="483 844 764 1122" data-label="Image"> </div> <p>Figure 1 – Warning label (IEC 60417-6044)</p> <p>Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.</p>	No such equipment	N/A
	Zx.4 Requirements for listening devices (headphones and earphones)		N/A
	<p>Zx.4.1 Wired listening devices with analogue input</p> <p>With 94 dBA sound pressure output $L_{Aeq,T}$, the input voltage of the fixed “programme simulation noise” described in EN 50332-2 shall be ≥ 75 mV.</p> <p>This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control).</p> <p>NOTE The values of 94 dBA - 75 mV correspond with 85dBA - 27 mV and 100 dBA - 150 mV.</p>	No such equipment	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
	<p>Zx.4.2 Wired listening devices with digital input</p> <p>With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output $L_{Aeq,T}$ of the listening device shall be ≤ 100 dBA.</p> <p>This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.).</p> <p>NOTE An example of a wired listening device with digital input is a USB headphone.</p>	No such equipment	N/A
	<p>Zx.4.3 Wireless listening devices</p> <p>In wireless mode:</p> <ul style="list-style-type: none">- with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and- respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and- with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above-mentioned programme simulation noise, <p>the acoustic output $L_{Aeq,T}$ of the listening device shall be ≤ 100 dBA.</p> <p>NOTE An example of a wireless listening device is a Bluetooth headphone.</p>	No such equipment	N/A
	<p>Zx.5 Measurement methods</p> <p>Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s.</p> <p>NOTE Test method for wireless equipment provided without listening device should be defined.</p>	No such equipment	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
Annex Zx (A12:2011)	<p>Significance of $L_{Aeq,T}$ in EN 50332-1 and additional information</p> <p>$L_{Aeq,T}$ is derived from the general formula for equivalent sound pressure:</p> $L_{eq} = 10 \log \left[\frac{1}{t_2 - t_1} \int_{t_1}^{t_2} \frac{p_A^2}{p_0^2} dt \right]$ <p>This can be represented graphically as follows:</p>  <p>In EN 50332-1 the measurement time interval ($t_2 - t_1$) is 30 s.</p> <p>In practice, and for the purposes of listening to personal music player content, $L_{Aeq,T}$ has a time interval T ($t_2 - t_1$) in the order of minutes / hours and not seconds.</p> <p>6.5 (Limitation value) of EN 50332-1:2000 acknowledges this fact and states that the 100 dB limit equates to a long time average of 90 dB $L_{Aeq,T}$. By using the IEC 60268-1 "programme simulation noise" test signal, this also takes the spectral content into account.</p> <p>The SCENHIR¹ report states that 80 dBA is considered safe for an exposure time of 40 h/week. Most persons do not listen to 40 h/week to their personal music player. In addition, not all music tracks are at the same level of the simulated noise signal. Whilst modern music tends to be at around the same level, most of the available music is at a lower average level. Therefore, the working group² considers a value of 85 dBA to be safe for an overwhelming majority of the users of personal music players.</p>	No such equipment	N/A



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
	¹ SCENIHR opinion of 23 Sept 2008: Potential health risks of exposure to noise from personal music players and mobile phones including a music playing function ² CENELEC TC108X/WG03	No such equipment	N/A

ZD	IEC and CENELEC code designations for flexible cords			N/A
	Type of flexible cord	Code designations		N/A
		IEC	CENELEC	
	PVC insulated cords			
	Flat twin tinsel cord	60227 IEC 41	H03VH-Y	
	Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F	
	Ordinary polyvinyl chloride sheathed flexible cord	60227 IEC 53	H05VV-F H05VVH2-F	
	Rubber insulated cords			
	Braided cord	60245 IEC 51	H03RT-F	
	Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F	
	Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F	
	Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F	
	Cords having high flexibility			
	Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H	
	Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H	
	Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H	



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict

1.5.1	TABLE: List of critical components					P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹⁾	
Switching Adapter	SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO., LTD.	TEA09E-09060	Input: 100- 240Vac, 50/60Hz, 0.3A; Output: 9Vdc, 0.6A; Class II	IEC 60950- 1:2005+A1:2009 +A2:2013	CB, issued by TUV RH, cert. No.: JPTUV- 062248	
PCB	Meizhou Benchuang Electronic Co LTD	BC-2	V-0, 130°C	UL 796	UL	
-Alternative use	Interchangeable	Interchangeable	Min. V-1, min. 105°C	UL 796	UL	

Supplementary information:

¹⁾ An asterisk indicates a mark which assures the agreed level of surveillance



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict

1.6.2	TABLE: Electrical data (in normal conditions)					P
U (V)	I (A)	I _{rated} (A)	P (W)	Fuse #	I _{fuse} (A)	Condition/status
With injector						
9.0Vdc	0.187	0.6	1.68	--	--	Maximum normal loading.
Without injector						
9.0Vdc	0.196	0.6	1.76	--	--	Maximum normal loading.
Supplementary information:						

2.1.1.5 c) 1)	TABLE: max. V, A, VA test				N/A
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)	
--	--	--	--	--	
--	--	--	--	--	
supplementary information:					
--					

2.1.1.5 c) 2)	TABLE: stored energy			N/A
Capacitance C (μF)		Voltage U (V)	Energy E (J)	
--		--	--	
--		--	--	
supplementary information:				
--				

2.1.1.7	TABLE: discharge test			N/A
Condition	τ calculated (s)	τ measured (s)	t _{u→0V}	Comments
--	--	--	--	--
--	--	--	--	--
supplementary information:				

2.2	TABLE: evaluation of voltage limiting components in SELV circuits			N/A
-----	---	--	--	-----



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict
Component (measured between)	max. voltage (V) (normal operation)		Voltage Limiting Components
	V peak	V d.c.	
--	--	--	--
--	--	--	--
Fault test performed on voltage limiting components	Voltage measured (V) in SELV circuits (V peak or V d.c.)		
--	--		
--	--		
supplementary information:			
--			

2.4	TABLE: limited current circuit measurement			N/A
Location		Voltage (V)	Current (mA)	Comments
--		--	--	--
--		--	--	--
supplementary information:				

2.5	TABLE: limited power sources			N/A
Circuit output tested:				
Measured Uoc (V) with all load circuits disconnected:				
	Isc (A)		VA	
	Meas.	Limit	Meas.	Limit
Normal condition	--	--	--	--
Single fault:	--	--	--	--
supplementary information:				
Sc=Short circuit, Oc=Open circuit				

2.6.3.4 and 2.6.1	TABLE: ground continue test			N/A
Location	resistant measures (Ω)	comments		
--	--	--		



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict

--	--	--	
supplementary information:			

2.10.2	Table: working voltage measurement				N/A
Location		RMS voltage (V)	Peak voltage (V)	Comments	
--		--	--	--	
supplementary information:					
--					

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements						N/A
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
Functional:							
--	--	--	--	--	--	--	
Basic/supplementary:							
--	--	--	--	--	--	--	
Reinforced:							
--	--	--	--	--	--	--	
Supplementary information:							

2.10.5	TABLE: Distance through insulation measurements						N/A
Distance through insulation (DTI) at/of:	U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)		
--	--	--	--	--	--	--	
Supplementary information:							

4.3.8	TABLE: Batteries					N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available					--	N/A
Is it possible to install the battery in a reverse polarity position?					--	N/A
	Non-rechargeable batteries		Rechargeable batteries			
	Discharging	Un-	Charging	Discharging	Reversed charging	



IEC 60950-1									
Clause	Requirement – Test					Result - Remark			Verdict

	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
--	--	--	--	--	--	--	--	--	
--	--	--	--	--	--	--	--	--	--

Test results:		Verdict
- Chemical leaks	--	--
- Explosion of the battery	--	--
- Emission of flame or expulsion of molten metal	--	--
- Electric strength tests of equipment after completion of tests	--	--
Supplementary information:		

4.3.8	TABLE: Batteries	N/A
Battery category.....: --		
Manufacturer.....: --		
Type / model.....: --		
Voltage.....: --		
Capacity.....: --		
Tested and Certified by (incl. Ref. No.).....: --		
Circuit protection diagram: --		

MARKINGS AND INSTRUCTIONS (1.7.13)	
Location of replaceable battery	--
Language(s)	--
Close to the battery	--
In the servicing instructions	--
In the operating instructions	--

4.5	TABLE: Thermal requirements	P
	Supply voltage (V): 9.0Vdc, Horiz on tal, 9.0Vdc, Horiz on tal, 9.0Vdc, Vert ical, 9.0Vdc, Vert ical, --	—
	Ambient T _{min} (°C): --, --, --, --, --	—



IEC 60950-1						
Clause	Requirement – Test			Result - Remark		Verdict

	Ambient T _{max} (°C)	--	--	--	--	--	—
Maximum measured temperature T of part/at::		T (°C)					Allowed Tmax (°C)
Calculated value for Tma:		--	40.0	--	40.0	--	--
Ambient temperature during test (Tamb):		26.0	--	25.9	--	--	--
U30 body		53.1	67.1	50.0	64.1	--	105
U1 body		78.2	92.2	75.3	89.4	--	105
U503 body		51.5	65.5	49.2	63.3	--	105
U506 body		54.2	68.2	53.3	67.4	--	105
T3 body		51.8	65.8	50.8	64.9	--	105
L37 body		51.2	65.2	50.8	64.9	--	105
Injector		42.2	56.2	42.6	56.7	--	80
Enclosure inside		53.9	67.9	51.9	66.0	--	80
Enclosure outside		50.0	64.0	47.1	61.2	--	80
Supplementary information:							
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed Tmax (°C)	Insulation class
--	--	--	--	--	--	--	--
Supplementary information:							

4.5.5	TABLE: Ball pressure test of thermoplastic parts			N/A
	Allowed impression diameter (mm) : ≤ 2 mm			—
Part		Test temperature (°C)	Impression diameter (mm)	
--		--	--	
Supplementary information:				

4.6	TABLE: Openings in enclosures			P
Location		dimensions	Comments	
Side		1.9mm x 5.9mm	Numbers slot openings cover an area of 5.9mm by 101mm maximum, total 4 areas.	
Bottom		2.6mm x 2.6mm	Numbers slot openings cover an area of 141mm by 143mm maximum.	



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict

Supplementary information:

4.7	TABLE: Resistance to fire					N/A
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence	
--	--	--	--	--	--	
Supplementary information:						
1) Openings that do not exceed 5 mm in any dimension						
2) Openings that do not hazardous voltage and energy hazard within 5° vertical projection.						
3) Metal bottoms of fire enclosures conforming to the dimensional limits of any line in Table 4D.						

5.1	TABLE: touch current measurement			N/A
Measured between:	Measured (mA)	Limit (mA)	Comments/conditions	
--	--	--	--	
supplementary information:				
--				

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests			N/A
Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No	
Functional:				
--	--	--	--	
Basic/supplementary:				
--	--	--	--	
Reinforced:				
--	--	--	--	
Supplementary information:				

5.3	TABLE: Fault condition tests		P
	Ambient temperature (°C)	26.3°C	—
	Power source for EUT: Manufacturer, model/type, output rating	--	—



IEC 60950-1			
Clause	Requirement – Test	Result - Remark	Verdict

Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
Opening	Blocked	9.0Vdc	1.1 hour	--	--	Unit working as normal, The max, temp: Enclosure: 54.2°C, Ambient: 26.3°C No hazards.
U506 pin5-6	Short	9.0Vdc	10 min.	--	--	Unit shut down, No damaged, no hazards
C311	Short	9.0Vdc	10 min.	--	--	Unit shut down, No damaged, no hazards
Supplementary information:						

C.2	TABLE: transformers						N/A
Loc.	Tested insulation	Working voltage peak / V (2.10.2)	Working voltage rms / V (2.10.2)	Required electric strength (5.2)	Required clearance / mm (2.10.3)	Required creepage distance / mm (2.10.4)	Required distance thr. insul. (2.10.5)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
Loc.	Tested insulation			Test voltage/ V	Measure d clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
--	--			--	--	--	--
--	--			--	--	--	--
supplementary information:							
--							

C.2	TABLE: transformers	N/A
None.		