

# SHENZHEN SIYOTEAM TECHNOLOGY CO.,LTD

# CE LVD REPORT

Prepared For :	SHENZHEN SIYOTEAM TECHNOLOGY CO.,LTD Room 2003B, SEG Plaza, huaqiang North Road, Futian District, SZ
Product Name:	POWER SOCKET
Trade:	LDNIO®
Test Model :	SK3460, SE3631
Prepared By :	Shenzhen BST Technology Co., Ltd.
	Building No.23-24, Zhiheng Industrial Park, Guankouer Road, Nantou,Nanshan District,Shenzhen,Guangdong,China
Test Date:	May 11, 2016 – May 20, 2016
Date of Report :	May 20, 2016
Report No.:	BST16054001A0003Y-1SR-2



	LVD Report		
	EN 60950-1		
Informa	Information technology equipment - Safety -		
	Part 1: General requirements		
Testing laboratory	Shenzhen BST Technology Co.,Ltd.		
Address :	Building No.23-24, Zhiheng Industrial Park, Guankouer Road, Nantou,Nanshan District,Shenzhen,Guangdong,China		
Testing location			
Applicant :	SHENZHEN SIYOTEAM TECHNOLOGY CO.,LTD		
Address :	Room 2003B, SEG Plaza, huaqiang North Road, Futian District, SZ		
Standard	EN 60950-1:2006+A11:2009+A1: 2010+A12:2011+ A2:2013		
Test Result :	Compliance with		
	EN 60950-1:2006+A11:2009+A1: 2010+A12:2011+ A2:2013		
Procedure deviation :	N/A.		
Non-standard test method :	N/A.		
Type of test object :	POWER SOCKET		
Trade Name	LDNIO®		
Model/type reference :	SK3460, SE3631		
Rating:	See copy of marking plate		
Manufacturer	SHENZHEN SIYOTEAM TECHNOLOGY CO.,LTD		
Address :	Room 2003B, SEG Plaza, huaqiang North Road, Futian District, SZ		
Test item particulars :			
Equipment mobility			
Operation condition:	Continuous		
Class of equipment:	Class I equipment		
Protection against ingress of water . :	N/A.		
Possible test case verdicts :			

test case does not apply to the test object	:	N(.A.)
test object does meet the requirement	:	P(ass)
test object does not meet the requirement	:	F(ail)



Possible test case verdicts :	
test case does not apply to the test object	N(.A.)
test object does meet the requirement	P(ass)
test object does not meet the requirement	F(ail)

General remarks:	
"(see remark #)" refers to a remark appended to the report.	Attached with:
"(see appended table)" refers to a table appended to	A. photo documentation
the report. Throughout this report a comma is used as the	General product information:
decimal separator.	The series products have the same circuit diagram,
The test results presented in this report relate only to	PCB layout and functionality. The differences are the
the object tested.	model name, so, we select SK3460 to test.
This report shall not be reproduced except in full	
without the written approval of the testing laboratory.	

Artwork of Marking Label

POWER SOCKET Model label: SK3460 Input: 250V~, 50-60Hz, 2.4A, 12W		
CE 🗵 🗘		
SHENZHEN SIYOTEAM TECHNOLOGY CO.,LTD		



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Prepared by :

Reviewer :

Dand Zhou

Engineer

Supervisor

Approved & Authorized Signer :

Christina / Manager



## Shenzhen BST Technology Co., Ltd.

Requirement – Test

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60950-1
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Result – Remark

Verdict

1	GENERAL		—
1.5	Components		
1.5.1	General	Refer to below.	Р
	Comply with IEC 60950-1 or relevant component standard	(see appended tables 1.5.1)	Р
1.5.2	Evaluation and testing of components	Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this standard. Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component standard. Components, for which no relevant IEC-standard exists, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.	Ρ
1.5.3	Thermal controls	No thermal controls.	N/A
1.5.4	Transformers		Р
1.5.5	Interconnecting cables		N/A
1.5.6	Capacitors bridging insulation		N/A
1.5.7	Resistors bridging insulation		N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N/A
1.5.8	Components in equipment for IT power systems		N/A
1.5.9	Surge suppressors		N/A
1.5.9.1	General		N/A
1.5.9.2	Protection of VDRs		N/A
1.5.9.3	Bridging of functional insulation by a VDR		N/A
1.5.9.4	Bridging of basic insulation by a VDR		N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N/A



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1.6	Power interface	
1.6.1	AC power distribution systems	
1.6.2	Input current	N/A
1.6.3	Voltage limit of hand-held equipment	N/A
1.6.4	Neutral conductor	N/A

1.7	Marking and instructions		
1.7.1	Power rating and identification markings	The required marking is located on the outside surface of the equipment.	Ρ
1.7.1.1	Power rating marking	See below	Р
	Multiple mains supply connections		
	Rated voltage(s) or voltage range(s) (V):	250V	Р
	Symbol for nature of supply, for d.c. only:		
	Rated frequency or rated frequency range (Hz):	50-60Hz	_
	Rated current (mA or A):	2.1A	
1.7.1.2	Identification markings	See below.	Р
	Manufacturer's name or trade-mark or identification mark	SHENZHEN SIYOTEAM TECHNOLOGY CO.,LTD	Р
	Model identification or type reference:	See page 1	Р
	Symbol for Class II equipment only		Р
	Other markings and symbols:		N/A
1.7.2	Safety instructions and marking	The user's manual contains information for operation, installation, servicing, transport, storage, technical data and battery show in the user manual	Ρ
1.7.2.1	General	Considered.	_
1.7.2.2	Disconnect devices		N/A
1.7.2.3	Overcurrent protective device		N/A
1.7.2.4	IT power distribution systems		N/A
1.7.2.5	Operator access with a tool		N/A
1.7.2.6	Ozone		N/A
1.7.3	Short duty cycles	The equipment is intended for continuous operation.	N/A
1.7.4	Supply voltage adjustment	No voltage select switch.	N/A



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Clause	Requirement – Test	Result – Remark	Verdict

	Methods and means of adjustment; reference to installation instructions		—
1.7.5	Power outlets on the equipment:	No standard power outlet.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):		Р
1.7.7	Wiring terminals		Р
1.7.7.1	Protective earthing and bonding terminals		Р
1.7.7.2	Terminals for a.c. mains supply conductors		N/A
1.7.7.3	Terminals for d.c. mains supply conductors		N/A
1.7.8	Controls and indicators	Refer below.	
1.7.8.1	Identification, location and marking		Р
1.7.8.2	Colours:		N/A
1.7.8.3	Symbols according to IEC 60417		N/A
1.7.8.4	Markings using figures		N/A
1.7.9	Isolation of multiple power sources		N/A
1.7.10	Thermostats and other regulating devices:	No thermostats or other regulating devices.	N/A
1.7.11	Durability	The marking withstands required tests.	Р
1.7.12	Removable parts	No marking is placed on removable parts.	Р
1.7.13	Replaceable batteries		Р
	Language(s)	English	
1.7.14	Equipment for restricted access locations:	Equipment not intended for installation in RAL.	N/A

2	PROTECTION FROM HAZARDS		
2.1	Protection from electric shock and energy hazards		
2.1.1	Protection in operator access areas	Refer below:	
2.1.1.1	Access to energized parts	Cannot touch live part or	Р
		basic insulation.	
	Test by inspection	Complies	Р
	Test with test finger (Figure 2A)	Complies	Р
	Test with test pin (Figure 2B)	Complies	Р
	Test with test probe (Figure 2C)		N/A
2.1.1.2	Battery compartments		N/A



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Clause	Requirement – Test	Result – Remark	Verdict

2.1.1.3	Access to ELV wiring		N/A
	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)		—
2.1.1.4	Access to hazardous voltage circuit wiring		N/A
2.1.1.5	Energy hazards	No energy hazard in operator access area. Checked by means of the test finger.	Р
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment		N/A
	Measured voltage (V); time-constant (s)		
2.1.1.8	Energy hazards – d.c. mains supply		N/A
	a) Capacitor connected to the d.c. mains supply:		N/A
	b) Internal battery connected to the d.c. mains supply:		N/A
2.1.1.9	Audio amplifiers	Audio accessible terminal (Ear phone out, SELV) is tested and complies with 2.1.1.1.	Р
2.1.2	Protection in service access areas	Checked by inspection unintentional contact is unlikely during service operations.	Р
2.1.3	Protection in restricted access locations		N/A

2.2	SELV circuits		
2.2.1	General requirements		Р
2.2.2	Voltages under normal conditions (V)	<42.4Vp or 60V d.c.	Р
2.2.3	Voltages under fault conditions (V)	<42.4Vp or 60V d.c.	Р
2.2.4	Connection of SELV circuits to other circuits:		Р

2.3	TNV circuits	
2.3.1	Limits	N/A
	Type of TNV circuits	
2.3.2	Separation from other circuits and from accessible parts	N/A
2.3.2.1	General requirements	N/A
2.3.2.2	Protection by basic insulation	N/A
2.3.2.3	Protection by earthing	N/A



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Clause	Requirement – Test	Result – Remark	Verdict

2.3.2.4	Protection by other constructions:	N/A
2.3.3	Separation from hazardous voltages	N/A
	Insulation employed	
2.3.4	Connection of TNV circuits to other circuits	N/A
	Insulation employed	
2.3.5	Test for operating voltages generated externally	N/A

2.4	Limited current circuits	
2.4.1	General requirements	Р
2.4.2	Limit values	Р
	Frequency (Hz)	_
	Measured current (mA)	_
	Measured voltage (V)	_
	Measured circuit capacitance (nF or µF):	—
2.4.3	Connection of limited current circuits to other circuits	N/A

2.5	Limited power sources		
	a) Inherently limited output	This equipment supplied by adaptor with LPS.	Р
	b) Impedance limited output		Р
	c) Regulating network limited output under normal operating and single fault condition		Р
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA):		
	Current rating of overcurrent protective device (A) .:		
	Use of integrated circuit (IC) current limiters		N/A

2.6	Provisions for earthing and bonding		
2.6.1	Protective earthing	Class I equipment.	Р
2.6.2	Functional earthing	Class I equipment.	N/A
2.6.3	Protective earthing and protective bonding conductors		—
2.6.3.1	General		_



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2.6.3.2	Size of protective earthing conductors		N/A
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG		—
2.6.3.3	Size of protective bonding conductors	Class I equipment.	N/A
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG:		—
	Protective current rating (A), cross-sectional area (mm <sup>2</sup> ), AWG:		—
2.6.3.4	Resistance of earthing conductors and their terminations; resistance ( $\Omega$ ), voltage drop (V), test current (A), duration (min)		N/A
2.6.3.5	Colour of insulation		N/A
2.6.4	Terminals		_
2.6.4.1	General		_
2.6.4.2	Protective earthing and bonding terminals		_
	Rated current (A), type, nominal thread diameter (mm):		N/A
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5	Integrity of protective earthing		N/A
2.6.5.1	Interconnection of equipment		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A
2.6.5.3	Disconnection of protective earth		N/A
2.6.5.4	Parts that can be removed by an operator		N/A
2.6.5.5	Parts removed during servicing		N/A
2.6.5.6	Corrosion resistance		N/A
2.6.5.7	Screws for protective bonding		N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A

2.7	2.7 Overcurrent and earth fault protection in primary circuits		
2.7.1	Basic requirements		Р
	Instructions when protection relies on building installation	Fuse FI integrated in the equipmnet	Р
2.7.2	Faults not simulated in 5.3.7		N/A
2.7.3	Short-circuit backup protection		N/A



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Clause	Requirement – Test	Result – Remark	Verdict
2.7.4	Number and location of protective devices	:	N/A
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel		N/A
2.8	Safety interlocks		
2.8.1	General principles		N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
	Protection against extreme hazard		N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches, relays and their related circuits		N/A
2.8.7.1	Separation distances for contact gaps and related circuits (mm)	their	N/A
2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test		N/A
2.8.8	Mechanical actuators		N/A

2.9	Electrical insulation		
2.9.1	Properties of insulating materials		Р
2.9.2	Humidity conditioning	48Hours	Р
	Relative humidity (%), temperature (°C):	94%RH, 30℃	—
2.9.3	Grade of insulation	The adequate levels of safety insulation is provided and maintained to comply with the requirements of this standard.	Р
2.9.4	Separation from hazardous voltages		Р
	Method(s) used		

2.10	2.10 Clearances, creepage distances and distances through insulation		
2.10.1	General		Р
2.10.1.1	Frequency: Considered		Р
2.10.1.2	2.10.1.2 Pollution degrees Pollution Degree 2		Р



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Clause	Requirement – Test Result	: – Remark	Verdict
2.10.1.3	Reduced values for functional insulation		Р
2.10.1.4	Intervening unconnected conductive parts		N/A
2.10.1.5	Insulation with varying dimensions		N/A
2.10.1.6	Special separation requirements		N/A
2.10.1.7	Insulation in circuits generating starting pulses		Р
2.10.2	Determination of working voltage		Р
2.10.2.1	General		Р
2.10.2.2	RMS working voltage		Р
2.10.2.3	Peak working voltage		Р
2.10.3	Clearances		Р
2.10.3.1	General		Р
2.10.3.2	Mains transient voltages		Р
	a) AC mains supply:		Р
	b) Earthed d.c. mains supplies:		N/A
	c) Unearthed d.c. mains supplies:		N/A
	d) Battery operation:		N/A
2.10.3.3	Clearances in primary circuits		Р
2.10.3.4	Clearances in secondary circuits		N/A
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply:	2500V	Р
2.10.3.7	Transients from d.c. mains supply:		N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems:		N/A
2.10.3.9	Measurement of transient voltage levels		
	a) Transients from a mains supply		N/A
	For an a.c. mains supply:		N/A
	For a d.c. mains supply:		N/A
	b) Transients from a telecommunication network :		N/A
2.10.4	Creepage distances		Р
2.10.4.1	General		Р
2.10.4.2	Material group and comparative tracking index		Р
	CTI tests:	Material group IIIb are assumed to be used	
2.10.4.3	Minimum creepage distances		Р
2.10.5	Solid insulation		N/A



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Clause	Requirement – Test	Result – Remark	Verdict
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2.10.5.1	General		Р
2.10.5.2	Distances through insulation		Р
2.10.5.3	Insulating compound as solid insulation		N/A
2.10.5.4	Semiconductor devices		N/A
2.10.5.5	Cemented joints		N/A
2.10.5.6	Thin sheet material – General		N/A
2.10.5.7	Separable thin sheet material		N/A
	Number of layers (pcs)	:	
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procee	dure	N/A
	Electric strength test		_
2.10.5.10	Thin sheet material – alternative test proc	edure	N/A
	Electric strength test		_
2.10.5.11	Insulation in wound components		
2.10.5.12	Wire in wound components		N/A
	Working voltage	:	N/A
	a) Basic insulation not under stress		N/A
	b) Basic, supplementary, reinforced insula	ition:	N/A
	c) Compliance with Annex U	:	N/A
	Two wires in contact inside wound compo angle between 45° and 90°		N/A
2.10.5.13	Wire with solvent-based enamel in wound components		N/A
	Electric strength test		N/A
	Routine test		N/A
2.10.5.14	Additional insulation in wound component	s	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		Р
2.10.6.1	Uncoated printed boards		Р
2.10.6.2	Coated printed boards		N/A
2.10.6.3	Insulation between conductors on the san surface of a printed board	ne inner	N/A



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2.10.6.4	Insulation between conductors on different layers of a printed board	N/A
	Distance through insulation	N/A
	Number of insulation layers (pcs):	
2.10.7	Component external terminations	N/A
2.10.8	Tests on coated printed boards and coated components	N/A
2.10.8.1	Sample preparation and preliminary inspection	N/A
2.10.8.2	Thermal conditioning	N/A
2.10.8.3	Electric strength test	N/A
2.10.8.4	Abrasion resistance test	N/A
2.10.9	Thermal cycling	N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound	N/A
2.10.11	Tests for semiconductor devices and cemented joints	N/A
2.10.12	Enclosed and sealed parts	N/A

3	WIRING, CONNECTIONS AND SUPPLY	
3.1	General	Р
3.1.1	Current rating and overcurrent protection	Р
3.1.2	Protection against mechanical damage	Р
3.1.3	Securing of internal wiring	Р
3.1.4	Insulation of conductors	Р
3.1.5	Beads and ceramic insulators	N/A
3.1.6	Screws for electrical contact pressure	N/A
3.1.7	Insulating materials in electrical connections	N/A
3.1.8	Self-tapping and spaced thread screws	N/A
3.1.9	Termination of conductors	Р
	10 N pull test	Р
3.1.10	Sleeving on wiring	N/A

3.2	Connection to a mains supply		Р
3.2.1	Means of connection	AC inlet	—



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3.2.1.1	Connection to an a.c. mains supply	AC	Р
3.2.1.2	Connection to a d.c. mains supply		N/A
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment		N/A
	Number of conductors, diameter of cable and conduits (mm)		—
3.2.4	Appliance inlets		Р
3.2.5	Power supply cords		_
3.2.5.1	AC power supply cords		N/A
	Туре		
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG		—
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief		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		N/A
	Diameter or minor dimension D (mm); test mass (g)	)	—
	Radius of curvature of cord (mm)		
3.2.9	Supply wiring space		N/A

3.3	Wiring terminals for connection of external conductor	ors	
3.3.1	Wiring terminals		N/A
3.3.2	Connection of non-detachable power supply cords		N/A
3.3.3	Screw terminals		N/A
3.3.4	Conductor sizes to be connected		N/A
	Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> ):		
3.3.5	Wiring terminal sizes		N/A
	Rated current (A), type, nominal thread diameter (mm):		
3.3.6	Wiring terminal design		N/A
3.3.7	Grouping of wiring terminals		N/A



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Clause	Requirement – Test F	Result – Remark	Verdict
3.3.8	Stranded wire		N/A
	_		1
3.4	Disconnection from the mains supply		
3.4.1	General requirement		Р
3.4.2	Disconnect devices		N/A
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized		N/A
3.4.5	Switches in flexible cords		
3.4.6	Number of poles - single-phase and d.c. equip	oment Single-phase AC equipment	Р
3.4.7	Number of poles - three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment		N/A
3.4.11	Multiple power sources		N/A

3.5	Interconnection of equipment		Р
3.5.1	General requirements	Considered.	_
3.5.2	Types of interconnection circuits	SELV circuit.	Р
3.5.3	ELV circuits as interconnection circuits		N/A
3.5.4	Data ports for additional equipment	The equipment supplied by adapter with LPS.	Р

4	PHYSICAL REQUIREMENTS		Р
4.1	Stability		Р
	Angle of 10°		Р
	Test force (N)	250N	Р

4.2	Mechanical strength		
4.2.1	General	Complies with the requirement also after tests described below are applied.	Р
	Rack-mounted equipment.		Р
4.2.2	Steady force test, 10 N		Р
4.2.3	Steady force test, 30 N		N/A



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4.2.4	Steady force test, 250 N	No hazard. The test is performed at enclosure.	Р
4.2.5	Impact test		N/A
	Fall test		N/A
	Swing test		N/A
4.2.6	Drop test; height (mm)	No hazard as result from the drop test at 1000mm height.	Р
4.2.7	Stress relief test		N/A
4.2.8	Cathode ray tubes		N/A
	Picture tube separately certified		N/A
4.2.9	High pressure lamps		N/A
4.2.10	Wall or ceiling mounted equipment; force (N):		Р
4.2.11	Rotating solid media		N/A
	Test to cover on the door		N/A
4.3	Design and construction		
4.3.1	Edges and corners	All edges and corners are rounded and/or smoothed.	Р
4.3.2	Handles and manual controls; force (N):		N/A
4.3.3	Adjustable controls		N/A
4.3.4	Securing of parts		Р
4.3.5	Connection by plugs and sockets		Р
4.3.6	Direct plug-in equipment		N/A
	Torque:		
	Compliance with the relevant mains plug standard		N/A
4.3.7	Heating elements in earthed equipment		N/A
4.3.8	Batteries		N/A
	- Overcharging of a rechargeable battery		N/A
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		N/A
4.3.9	Oil and grease		N/A
4.3.10	Dust, powders, liquids and gases		N/A
4.3.11	Containers for liquids or gases		N/A



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Clause	Requirement – Test	Result – Remark	Verdict

4.3.12	Flammable liquids	N/A
	Quantity of liquid (I)	N/A
	Flash point (°C)	N/A
4.3.13	Radiation	N/A
4.3.13.1	General	N/A
4.3.13.2	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	N/A
	Part, property, retention after test, flammability classification	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	N/A
4.3.13.5.1	Lasers (including laser diodes)	N/A
	Laser class	
4.3.13.5.2	Light emitting diodes (LEDs)	N/A
4.3.13.6	Other types	N/A

4.4	Protection against hazardous moving parts	
4.4.1	General	N/A
4.4.2	Protection in operator access areas	N/A
	Household and home/office document/media shredders	N/A
4.4.3	Protection in restricted access locations:	N/A
4.4.4	Protection in service access areas	N/A
4.4.5	Protection against moving fan blades	N/A
4.4.5.1	General	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	N/A
	Use of symbol or warning	N/A



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4.4.5.3	Protection for service persons	N/A
	Use of symbol or warning	N/A

4.5	Thermal requirements		
4.5.1	General See below.		Р
4.5.2	Temperature tests	(see appended table 4.5)	—
	Normal load condition per Annex L		Р
4.5.3	Temperature limits for materials		—
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat		Р

4.6	Openings in enclosures	
4.6.1	Top and side openings	N/A
	Dimensions (mm)	—
4.6.2	Bottoms of fire enclosures	N/A
	Construction of the bottom, dimensions (mm):	—
4.6.3	Doors or covers in fire enclosures	N/A
4.6.4	Openings in 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	N/A
	Conditioning temperature (°C), time (weeks):	_

4.7	Resistance to fire		
4.7.1	Reducing the risk of ignition and spread of flame		Р
	Method 1, selection and application of components wiring and materials	(see appended table 1.5.1)	Р
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure	Refer below.	
4.7.2.1	Parts requiring a fire enclosure		Р
4.7.2.2	Parts not requiring a fire enclosure	The fire enclosure is required to cover all parts.	N/A



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Clause	Requirement – Test	Result – Remark	Verdict

4.7.3	Materials		Р
4.7.3.1	General	Components and materials have adequate flammability classification. See appended table 1.5.1.	Р
4.7.3.2	Materials for fire enclosures		Р
4.7.3.3	Materials for components and other parts outside fire enclosures		N/A
4.7.3.4	Materials for components and other parts inside fire enclosures		Р
4.7.3.5	Materials for air filter assemblies		N/A
4.7.3.6	Materials used in high-voltage components		N/A

5	ELECTRICAL REQUIREMENTS AND SIMULATED	ABNORMAL CONDITIONS	
5.1	Touch current and protective conductor current		Р
5.1.1	General		Р
5.1.2	Configuration of equipment under test (EUT)		
5.1.2.1	Single connection to an a.c. mains supply		Р
5.1.2.2	Redundant multiple connections to an a.c. mains supply		N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N/A
5.1.3	Test circuit		Р
5.1.4	Application of measuring instrument	See Annex D	Р
5.1.5	Test procedure		
5.1.6	Test measurements		
	Supply voltage (V)	220-240V	
	Measured touch current (mA)	0.15mA	
	Max. allowed touch current (mA)	3.5 mA	
	Measured protective conductor current (mA):		
	Max. allowed protective conductor current (mA):		
5.1.7	Equipment with touch current exceeding 3,5 mA		N/A
5.1.7.1	General		
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks		N/A



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Clause	Requirement – Test	Result – Remark	Verdict

5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	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	N/A
	a) EUT with earthed telecommunication ports:	
	b) EUT whose telecommunication ports have no reference to protective earth	—

5.2	Electric strength	
5.2.1	General	Р
5.2.2	Test procedure	Р

5.3	Abnormal operating and fault conditions	
5.3.1	Protection against overload and abnormal operation	N/A
5.3.2	Motors	N/A
5.3.3	Transformers	Р
5.3.4	Functional insulation	N/A
5.3.5	Electromechanical components	N/A
5.3.6	Audio amplifiers in ITE:	N/A
5.3.7	Simulation of faults	N/A
5.3.8	Unattended equipment	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	N/A
5.3.9.1	During the tests	N/A
5.3.9.2	After the tests	N/A

6	CONNECTION TO TELECOMMUNICATION NETWORKS	
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	
6.1.1	Protection from hazardous voltages	
6.1.2	Separation of the telecommunication network from earth	
6.1.2.1	Requirements	N/A



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Clause	Requirement – Test	Result – Remark	Verdict

	Supply voltage (V)	
	Current in the test circuit (mA)	
6.1.2.2	Exclusions	N/A

6.2	Protection of equipment users from overvoltages on telecommunication networks	
6.2.1	Separation requirements	N/A
6.2.2	Electric strength test procedure	N/A
6.2.2.1	Impulse test	N/A
6.2.2.2	Steady-state test	N/A
6.2.2.3	Compliance criteria	N/A

6.3	Protection of the telecommunication wiring system from overheating	
	Max. output current (A)	
	Current limiting method	

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS			
7.1	General	Not connected to Cable Distribution System.	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		N/A	
7.3	Protection of equipment users from overvoltages on the cable distribution system		N/A	
7.4	Insulation between primary circuits and cable distribution systems		N/A	
7.4.1	General		N/A	
7.4.2	Voltage surge test		N/A	
7.4.3	Impulse test		N/A	

А	Annex A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
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)		N/A
A.1.1	Samples		
	Wall thickness (mm)		
A.1.2	Conditioning of samples; temperature (°C):		N/A



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	EN 6095	0-1	
Clause	Requirement – Test	Result – Remark	Verdict
_			
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 mov exceeding 18 kg, and for material and com (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material		
	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)		N/A
A.3.1	Mounting of samples		N/A
A.3.2	Test procedure		N/A
A.3.3	Compliance criterion		N/A

В	Annex B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N/A
B.1	General requirements	No motors	N/A



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

	Position:	
	Manufacturer	
	Туре	
	Rated values	
B.2	Test conditions	N/A
B.3	Maximum temperatures	N/A
B.4	Running overload test	N/A
B.5	Locked-rotor overload test	N/A
	Test duration (days)	
	Electric strength test: test voltage (V):	
B.6	Running overload test for d.c. motors in secondary circuits	N/A
B.6.1	General	N/A
B.6.2	Test procedure	N/A
B.6.3	Alternative test procedure	N/A
B.6.4	Electric strength test; test voltage (V):	N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	N/A
B.7.1	General	N/A
B.7.2	Test procedure	N/A
B.7.3	Alternative test procedure	N/A
B.7.4	Electric strength test; test voltage (V):	N/A
B.8	Test for motors with capacitors	N/A
B.9	Test for three-phase motors	N/A
B.10	Test for series motors	N/A
	Operating voltage (V)	

С	Annex C, TRANSFORMERS (see 1.5.4 and 5.3.3)		Р
	Position:	T1	—
	Manufacturer	(see appended table 1.5.1)	—
	Туре	(see appended table 1.5.1)	—
	Rated values	(see appended table 1.5.1)	—
	Method of protection	Inherent	—
C.1	Overload test		Р



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C.2	Insulation	Р
	Protection from displacement of windings	Р

D	Annex D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		Р
D.1	Measuring instrument		Р
D.2	Alternative measuring instrument		N/A
		•	

E	Annex E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	N/A
		1

F	Annex F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES	Р	
	(see 2.10 and Annex G)		

G	Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	N/A
G.1	Clearances	N/A
G.1.1	General	N/A
G.1.2	Summary of the procedure for determining minimum clearances	N/A
G.2	Determination of mains transient voltage (V)	N/A
G.2.1	AC mains supply	N/A
G.2.2	Earthed d.c. mains supplies	N/A
G.2.3	Unearthed d.c. mains supplies:	N/A
G.2.4	Battery operation	N/A
G.3	Determination of telecommunication network transient voltage (V):	N/A
G.4	Determination of required withstand voltage (V)	N/A
G.4.1	Mains transients and internal repetitive peaks:	N/A
G.4.2	Transients from telecommunication networks:	N/A
G.4.3	Combination of transients	N/A
G.4.4	Transients from cable distribution systems	N/A
G.5	Measurement of transient voltages (V)	N/A
	a) Transients from a mains supply	N/A
	For an a.c. mains supply	N/A
	For a d.c. mains supply	N/A
	b) Transients from a telecommunication network	N/A

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Clause	Requirement – Test	Result – Remark	Verdict
G.6	Determination of minimum clear	cances :	N/A

Н	Annex H, IONIZING RADIATION (see 4.3.13)	N/A	
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J	Annex J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	N/A
	Metal(s) used	

К	Annex K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)	
K.1	Making and breaking capacity	N/A
K.2	Thermostat reliability; operating voltage (V):	N/A
K.3	Thermostat endurance test; operating voltage (V)	N/A
K.4	Temperature limiter endurance; operating voltage (V):	N/A
K.5	Thermal cut-out reliability	N/A
K.6	Stability of operation	N/A

L	Annex L, NORMAL LOAD CONDITIONS FOR SO BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	ME TYPES OF ELECTRICAL	
L.1	Typewriters	Not used.	N/A
L.2	Adding machines and cash registers		N/A
L.3	Erasers		N/A
L.4	Pencil sharpeners		N/A
L.5	Duplicators and copy machines		N/A
L.6	Motor-operated files		N/A
L.7	Other business equipment		N/A
М	Annex M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		
M.1	Introduction		N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringing signal		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)		



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M.3.2	Tripping device and monitoring voltage	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	N/A
M.3.2.2	Tripping device	N/A
M.3.2.3	Monitoring voltage (V)	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.1	ITU-T impulse test generators		N/A
N.2	IEC 60065 impulse test generator		N/A

Р	Annex P, NORMATIVE REFERENCES	

Q	Annex Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	
	a) Preferred climatic categories	Р
	b) Maximum continuous voltage	Р
	c) Pulse current	Р

	Annex R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		
	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A

S	Annex S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)	
S.1	Test equipment	N/A
S.2	Test procedure	N/A
S.3	Examples of waveforms during impulse testing	N/A

Т	Annex T, GUIDANCE ON PROTECTION AGAINST (see 1.1.2)	INGRESS OF WATER	N/A

U	Annex U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED	Р
	INSULATION (see 2.10.5.4)	



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Clause	Requirement – Test	Result – Remark	Verdict

V     Annex V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)       V.1     Introduction		Р	
V.1 Introduction See below		—	
V.2	TN power distribution systems		Р

W	Annex W, SUMMATION OF TOUCH CURRENTS		
W.1	Touch current from electronic circuits		N/A
W.1.1	Floating circuits	Floating circuits	
W.1.2	Earthed circuits		N/A
W.2	Interconnection of several equipments		N/A
W.2.1	Isolation		N/A
W.2.2	Common return, isolated from earth		N/A
W.2.3	Common return, connected to protective earth		N/A

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

Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	
Y.1	Test apparatus	N/A
Y.2	Mounting of test samples	N/A
Y.3	Carbon-arc light-exposure apparatus:	N/A
Y.4	Xenon-arc light exposure apparatus:	N/A
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	

AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	
BB	ANNEX BB, CHANGES IN THE SECOND EDITION	
CC	Annex CC, Evaluation of integrated circuit (IC) current limiters	
CC.1	General	N/A



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Clause	Requirement – Test	Result – Remark	Verdict

CC.2	Test program 1	N/A
CC.3	Test program 2	N/A
DD	Annex DD, Requirements for the mounting means of rack-mounted equipment	
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

EE	Annex EE, Household and home/office document/media shredders	
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

ATTACHMENT TO TEST REPORT EN 60950-1
EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES
Information technology equipment – Safety –
part 1: general requirements
Differences according to : EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
Attachment Form No EU_GD_IEC60950_1B_II
Attachment Originator : SGS Fimko Ltd
Master Attachment : Date 2011-08
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EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 - CENELEC COMMON MODIFICATIONS

EN 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)



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

Clause	Requirement + Test	Result - Remark	Verdict	
Contents	Add the following annexes: Annex ZA (normative) Normative references to in their corresponding European publications Annex ZB (normative) Special national conditions		Ρ	
General				
General (A1:2010)	60050 1:2005/A1:2010) apporting to the following list:			
1.3.Z1		See separated sound pressure report.	Ρ	



EN 60950-1

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

	EN 60950-1, GROUP DIFFERENCES (CENEL	EC common modifications EN	
Clause	Requirement + Test	Result - Remark	Verdict
	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.		
(A12:2011 )			N/A
,	Delete the addition of 1.3.Z1 / EN 60950-1:2006		
	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010		
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		N/A
1.7.2.1 (A1:2010)	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.		Р
1.7.2.1 (A12.2011 )	In EN 60950-1:2006/A12:2011 Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments. Zx Protection against excessive sound pressure fi	om personal music players	P
	Zx.1 General 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. A personal music player is a portable equipment for personal use, that: is designed to allow the user to listen to		P



Shenzhen BST Technology Co., Ltd.

Requirement – Test

EN 60950-1

Result – Remark

Verdict

Result - Remark	Verdict
	P



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Requirement – Test

EN 60950-1

Result – Remark

Verdict

	EN 60950-1, GROUP DIFFERENCES (CENEL	EC common modifications EN	1)
Clause	Requirement + Test	Result - Remark	Verdict
	<ul> <li>Zx.2 Equipment requirements</li> <li>No safety provision is required for equipment that complies with the following:</li> <li>equipment provided as a package (personal music player with its listening device), where the acoustic output LAeq,T is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; anda 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 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1.</li> <li>NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level LAeq,T is meant. See also Zx.5 and Annex Zx.</li> <li>All other equipment shall:</li> <li>a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and</li> <li>b) have a standard acoustic output level not exceeding those mentioned above when the power is switched off; and</li> </ul>		P
	c) 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 NOTE 2 Examples of means include visual or audible signals. Action from the user is always required.		N/A



Shenzhen BST Technology Co., Ltd.

Requirement – Test

EN 60950-1

Result – Remark

Verdict

	EN 60950-1, GROUP DIFFERENCES (CENEL	EC common modifications EN)	-
Clause	Requirement + Test	Result - Remark	Verdict
	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. d) have a warning as specified in Zx.3; and e) not exceed the following: 1) equipment provided as a package (player with Its listening device), the acoustic output shall be $\leq 100$ dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and 2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be $\leq 150$ mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1. For music where the average sound pressure (long term LAeq,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. NOTE 4 Classical music typically has an average sound pressure (long term LAeq,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.		



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

EN 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)			
Clause	Requirement + Test	Result - Remark	Verdict
	Zx.3 Warning The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: the symbol of Figure 1 with a minimum height of 5 mm; and the following wording, or similar: "To prevent possible hearing damage, do not listen at high volume levels for long periods."		N/A
	Figure 1 – Warning label (IEC 60417-6044) 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.	nos and carabanas)	N/A
	Zx.4 Requirements for listening devices (headphot Zx.4.1 Wired listening devices with analogue input With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be $\geq$ 75 mV. 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).		N/A N/A
	NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.		
	Zx.4.2 Wired listening devices with digital input 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 LAeq,T of the listening device shall be ≤ 100 dBA.		N /A
	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.). NOTE An example of a wired listening device with digital input is a USB headphone.		



EN 60950-1

Requirement – Test Result – Remark Verdict Clause

	EN 60950-1, GROUP DIFFERENCES (CENELI	EC common modifications EN	1)
Clause	Requirement + Test	Result - Remark	Verdict
	<ul> <li>Zx.4.3 Wireless listening devices</li> <li>In wireless mode:</li> <li>with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and</li> <li>respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and</li> <li>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 abovementioned programme simulation noise, the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.</li> <li>NOTE An example of a wireless listening device is a Bluetooth headphone.</li> </ul>		N/A
	Zx.5 Measurement methods 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. NOTE Test method for wireless equipment provided without listening device should be defined.		N/A



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

Clause	Requirement + Test	Result - Remark	Verdict
2.7.1	Replace the subclause as follows:		Р
	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.		
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

	EN 60950-1, GROUP DIFFERENCES (CENELE	EC common modifications EN	)
Clause	Requirement + Test	Result - Remark	Verdict
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2".		N/A
	In Table 3B, replace the first four lines by the following:		
	Up to and including 6 $ $ 0,75 <sup>a)</sup> $ $ Over 6 up to and including 10 $ $ (0,75) <sup>b)</sup> 1,0 $ $ Over 10 up to and including 16 $ $ (1,0) <sup>c)</sup> 1,5 In the conditions applicable to Table 3B delete the words "in some countries" in condition <sup>a)</sup> .	2	
	In NOTE 1, applicable to Table 3B, delete the second sentence.		
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:		N/A
	Over 10 up to and including 16   1,5 to 2,5   1,5 to 4		
	Delete the fifth line: conductor sizes for 13 to 16 A		
4.3.13.6	Replace the existing NOTE by the following:	Considered.	—
(A1:2010)	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, and		
	2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation).		
	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	Considered.	-
Annex H	Replace the last paragraph of this annex by:		N/A
	At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 $\mu$ Sv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.		
	Replace the notes as follows:		
	NOTE These values appear in Directive 96/29/Euratom.		
	Delete NOTE 2.		
Bibliograp hy	Additional EN standards.		_



Clause

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Requirement – Test

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Result – Remark

EN 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)				
Clause	Clause Requirement + Test Result - Remark Verdi			
ZA	Normative references to international publications with their corresponding European publications		—	

	ZB ANNEX (normative)				
	SPECIAL NATIONAL CONI	DITIONS (EN)	·		
Clause	Requirement + Test	Result - Remark	Verdict		
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	In Norway and Sweden, for requirements see 1.7.2.1 and 7.3 of this annex.	Not connected to cable distribution system.	N/A		
1.5.7.1	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.		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).		Р		
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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	ZB ANNEX (norm	native)				
	SPECIAL NATIONAL CONDITIONS (EN)					
Clause	Requirement + Test	Result - Remark	Verdict			
1.7.2.1	In 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.		N/A			
	The marking text in the applicable countries shall be as follows:					
	In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"					
	In Norway: "Apparatet må tilkoples jordet stikkontakt"					
	In Sweden: "Apparaten skall anslutas till jordat uttag"					
	In Norway and Sweden, the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.					
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.					
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:					
	"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."					



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	ZB ANNEX (norr	,		
SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test	Result - Remark	Verdict	
	NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		N/A	
	Translation to Norwegian (the Swedish text will also be accepted in Norway):			
	"Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet."			
	Translation to Swedish:			
	"Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."			
1.7.5	In Denmark, socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a. For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.	No socket-outlets provided.	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.	No TNV circuits.	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 circuits.	N/A	
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 circuits.	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.		N/A	



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	ZB ANNEX (normative)					
	SPECIAL NATIONAL CONDITIONS (EN)					
Clause	Requirement + Test	Result - Remark	Verdict			
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.	Not direct plug in equipment.	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.	No TNV circuits.	N/A			
3.2.1.1	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:		N/A			
	SEV 6532-2.1991Plug Type 153P+N+PE250/400 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         Plug Type 12         L+N+PE					
	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: 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, 16A SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A					



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Clause Requirement – Test

Result – Remark

	ZB ANNEX (norr	native)	
	SPECIAL NATIONAL CONI	DITIONS (EN)	Γ
Clause	Requirement + Test	Result - Remark	Verdict
3.2.1.1	In Denmark, supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1.		N/A
	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.		
	If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.		
3.2.1.1	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.		N/A
	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.		
	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.		
	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.		



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	ZB ANNEX (norr	native)	
	SPECIAL NATIONAL CONI	DITIONS (EN)	
Clause	Requirement + Test	Result - Remark	Verdict
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.		N/A
	NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.		
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.		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 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.		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:		N/A
	• 1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> nominal cross-sectional area.		



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	ZB ANNEX (norr	native)	
	SPECIAL NATIONAL CONI	DITIONS (EN)	
Clause	Requirement + Test	Result - Remark	Verdict
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.		Ρ
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.		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:		N/A
	• STATIONARY PLUGGABLE EQUIPMENT TYPE A that 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.		



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	ZB ANNEX (norr	native)	
	SPECIAL NATIONAL CONI	DITIONS (EN)	1
Clause	Requirement + Test	Result - Remark	Verdict
6.1.2.1 (A1:2010 )	In Finland, Norway and Sweden, add the following text between the first and second paragraph of the compliance clause:	No TNV circuits.	N/A
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either		
	-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.		
	Alternatively for components, there is no distance through insulation requirements 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		
	-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.		



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Clause Requirement – Test

Result – Remark

Verdict

	ZB ANNEX (norr	native)	
	SPECIAL NATIONAL CONI	DITIONS (EN)	I
Clause	Requirement + Test	Result - Remark	Verdict
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).	No TNV circuits.	N/A
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.		
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:		
	-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.		
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.		N/A
7.2	In Finland, Norway and Sweden, for requirements see 6.1.2.1 and 6.1.2.2 of this annex.	No CDS circuits.	N/A
	The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.		
7.3	In Norway and Sweden, for requirements see 1.2.13.14 and 1.7.2.1 of this annex.		N/A
7.3	In Norway, for installation conditions see EN 60728-11:2005.		N/A



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1.5.1 List of critical components						
object/part No.	manufacturer/trad emark	type/model	technical data	standard	mark(s) of conformity <sup>1</sup> )	
Enclosure	Various	Various	<b>V-0, 105</b> ℃		UL	
PCB	Various	Various	<b>V-0, 130</b> ℃		UL	
1. A	diantan a mark which				•	

<sup>1</sup>) An asterisk indicates a mark which assures the agreed level of surveillance

1.6.2	TABLE: e	lectrical data	(in normal c	onditions)			Р
Uin(Vac)	H(Hz)	U (V)	I (A)	P (W	P (W) condition/status		
Supplementary information: Rated 250V~, 50-60Hz, 2.4A, 12W							
2.5	TABLE: li	mited power	sources				N
Circuit output tested:							
Measured Uoc (V) with all load circuits disconnected:							
				I <sub>sc</sub> (A) VA		A	
				Meas. Limit Meas.			Limit

2.10.3 and 2.10.4	TABLE: clea	ABLE: clearance and creepage distance measurements					
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)	
Separation of L/N	359	250	2.0	2.8	2.4	2.8	
Primary to Secondary trace of optocoupler IC1	341	250	4.0	5.2	4.8	5.2	
Primary traces of T1 to secondary trace	357	250	4.0	5.2	4.8	5.2	
Supplementary information:	Supplementary information:						

4.5	Т	ABLE: t	hermal requ	uirement	ts	Р
supply voltage (V):	275V		225V			
	50Hz		60Hz			
ambient Tmin (°C):	25		25			_

	ambient Tmax (°C)	25.3		25.3	 	
Maximum r	neasured temperature T of part/at:		_	T (°C)		allowed T <sub>max</sub> (°C)
C1		60.9		63.4		105
PCB near 1	Г1	69.0		73.3		130
T1 winding		79.2		82.3		110



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	Clause	Requirement – Test		Result – Remark	Verdict

T1 core	T1 core 77.2			79.8			110
Enclosure outside near T1 41.9				43.2			95
Enclosure inside near T1 51.8				53.8			
Ambient 25.0				25.0			
Tma= 25°C.						·	
4.5.5 TABLE: ball pressure test of thermoplastic parts			5				Р
allowed impression diameter (mm)			∶ ≤2n	nm			
part			te				on diameter mm)
Plastic Enclosure				125		0.92	
Bobbin of transformer T1				125		(	).85
Supplemen	tary information:						

5.2	TABLE: electric strength tests, impul	ABLE: electric strength tests, impulse tests and voltage surge tests P							
test voltage	applied between:	voltage shape (AC, DC, impulse, surge)	test voltage (V)		reakdown Yes / No				
Basic/supple	ementary:								
L/N to enclo	sure	AC	1500		No				
supplement	ary information								

5.3	TABLE: fault co	ondition tests					Р
	ambient temper	rature (°C)		:	See below		
	power source for output rating						_
component No.	fault	supply voltage (V)	test time	fuse No.	fuse current (A)	Observation	
Transformer (T1) pin 1-2	Short circuit	250V	5 min	F1	0.003	Unit shutdown immediately, no	o hazard.
Transformer (T1) pin 3-4	Short circuit	250V	5 min	F1	0.003	Unit shutdown immediately, no	o hazard.
Transformer (T1) pin 5-6	Short circuit	250V	5 min	F1	0.003	Unit shutdown immediately, no	o hazard.
Output terminal	Short circuit	250V	30min	F1	0.173→0.003	Unit shutdown immediately, no	o hazard.



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Clause	Requirement – Test				Res	Result – Remark		
Output terminal		Overload	250V	3hours	F1	0.173→0.161 →0.203	The max. temper T1 winding: 106. T1 core: 105.4 °C Ambient: 25.0°C No hazard.	8°C C



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# ANNEX A:

# **Photo-documentation**





Photo 1 General Appearance of the EUT



Photo 2 General Appearance of the EUT



Shenzhen BST Technology Co., Ltd.



Photo 3 General Appearance of the EUT



Photo 4 General Appearance of the EUT

##### End Of The Report #####