Report No.: BST16032960A0003Y-1SR-2

SHENZHEN SIYOTEAM TECHNOLOGY CO.,LTD



Prepared For :	SHENZHEN SIYOTEAM TECHNOLOGY CO.,LTD Room 2003B, SEG Plaza, huaqiang North Road, Futian District, SZ
Product Name:	USB CAR CHARGER
Trade Name:	LDNIO®
Main Test Model:	DL-C50, DL-219, DL-C12, DL-C22, DL-C28, DL-C29
Prepared By:	Shenzhen BST Technology Co., Ltd.
	Building No.23-24, Zhiheng Industrial Park, Guankouer Road, Nantou, Nanshan District, Shenzhen, Guangdong, China
Test Date:	Mar. 16, 2016 - Mar. 30, 2016
Date of Report :	Mar. 31, 2016
Report No.:	BST16032960A0003Y-1SR-2



Report No.: BST16032960A0003Y-1SR-2

LVD Report

EN 60950-1

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: Shenzhen BST Technology Co.,Ltd.

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

Trade Name

LDNIO®

Procedure deviation: N/A.

Non-standard test method: N/A.

Type of test object : USB CAR CHARGER

Model/type reference DL-C50

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: FIX

Operation condition: Continuous

Class of equipment: Class III equipment

Protection against ingress of water . : N/A.



Р	ossible 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. "(see appended table)" refers to a table appended to the report.	Attached with: A photo documentation
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 testing laboratory.	



Report No.: BST16032960A0003Y-1SR-2

Artwork of Marking Label

USB CAR CHARGER Model label: DL-C50 Rated: 12-24V---, 25.5W





SHENZHEN SIYOTEAM TECHNOLOGY CO.,LTD

Christina / Manager

Prepared by :

Engineer

Reviewer :

Supervisor

Approved & Authorized Signer :



Report No.:	BST16032960A	.0003Y-1SR-2
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	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
1	GENERAL		_
1.5	Components		
1.5.1	General	Refer to below.	Р
	Comply with IEC 60950-1 or relevant compor standard	ent (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.	P
1.5.3	Thermal controls	No thermal controls.	N/A
1.5.4	Transformers	Transformers used are suitable for their intended application and comply with the relevant requirements of the standard and particularly Annex C.	N/A
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 insula between a.c. mains and other circuits	tion .	N/A
1.5.7.3	Resistors bridging double or reinforced insula between a.c. mains and antenna or coaxial ca		N/A
1.5.8	Components in equipment for IT power syste	ms IT for Norway	N/A
1.5.9	Surge suppressors	No MOV	N/A



1.6.3

1.6.4

Shenzhen BST Technology Co., Ltd.

Voltage limit of hand-held equipment

Neutral conductor

	EN 60	950-1	
Clause	Requirement – Test	Result – Remark	Verdict
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 VDF	3	N/A
1.5.9.4	Bridging of basic insulation by a VDR		N/A
1.5.9.5	Bridging of supplementary, double or reir insulation by a VDR	nforced	N/A
		•	
1.6	Power interface		
1.6.1	AC power distribution systems	TN power distribution system	_
		and IT for Norway	
1.6.2	Input current	(see appended table 1.6.2)	N/A

Report No.: BST16032960A0003Y-1SR-2

The equipment is not

hand-held.

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.	Р
1.7.1.1	Power rating marking	See below	Р
	Multiple mains supply connections		
	Rated voltage(s) or voltage range(s) (V):	12-24V	Р
	Symbol for nature of supply, for d.c. only:	DC	1
	Rated frequency or rated frequency range (Hz):		_
	Rated current (mA or A):		_
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:		Р
	Symbol for Class II equipment only:		N/A
	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	Р

N/A

N/A



Report No.:	RST1	60329604	.0003Y-	1SR-2
176001110	DOII	いいひとさいいた	WW	1011-2

	EN 60950-	
Clause Requirement – Test Result – F		Result – Remark Verdict
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	IT for Norway N/A
1.7.2.5	Operator access with a tool	No such access required. N/A
1.7.2.6	Ozone	N/A
1.7.3	Short duty cycles	The equipment is intended for continuous operation.
1.7.4	Supply voltage adjustment	: No voltage select switch. N/A
	Methods and means of adjustment; reference 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)	: N/A
1.7.7	Wiring terminals	_
1.7.7.1	Protective earthing and bonding terminals	: N/A
1.7.7.2	Terminals for a.c. mains supply conductors	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	P
1.7.8	Controls and indicators	Refer below. —
1.7.8.1	Identification, location and marking	: N/A
1.7.8.2	Colours	: N/A
1.7.8.3	Symbols according to IEC 60417	: P
1.7.8.4	Markings using figures	: No controls. 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.
1.7.11	Durability	The marking withstands P required tests.
1.7.12	Removable parts	No marking is placed on N/A removable parts.
1.7.13	Replaceable batteries	: N/A
	Language(s)	:
1.7.14	Equipment for restricted access locations	: Equipment not intended for N/A installation in RAL.
2	PROTECTION FROM HAZARDS	
2.1	Protection from electric shock and energy haz	ards —



Report No.:	RST1	60329604	.0003Y-	1SR-2
176001110	DOII	いいひとさいいた	WW	1011-2

	EN 60950-			
Clause	ause Requirement – Test Result – Remark		Verdict	
				•
2.1.1	Protection in operator access areas		Refer below:	_
2.1.1.1	Access to energized parts			N/A
	Test by inspection	:		N/A
	Test with test finger (Figure 2A)	:		N/A
	Test with test pin (Figure 2B)	:		N/A
	Test with test probe (Figure 2C)	:		N/A
2.1.1.2	Battery compartments			N/A
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	:		N/A
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 supp	ly:		N/A
	b) Internal battery connected to the d.c. mains supply			N/A
2.1.1.9	Audio amplifiers	:		
2.1.2	Protection in service access areas			N/A
2.1.3	Protection in restricted access locations		Equipment not intended for installation in RAL.	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		No TNV circuits.	N/A
	Type of TNV circuits	:		_
2.3.2	Separation from other circuits and from acces parts	sible		N/A
2.3.2.1	General requirements			N/A
2.3.2.2	Protection by basic insulation			N/A



	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
2.3.2.3	Protection by earthing		N/A
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 externa	lly	N/A
2.4	Limited current circuits	·	Р
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		N/A
	b) Impedance limited output		N/A
	c) Regulating network limited output under no operating and single fault condition	rmal	N/A
	d) Overcurrent protective device limited output	t	N/A
	Max. output voltage (V), max. output current (max. apparent power (VA)	A), :	_
	Current rating of overcurrent protective device	e (A) .:	_
	Use of integrated circuit (IC) current limiters		N/A
2.6	Provisions for earthing and bonding	1	
2.6.1	Protective earthing	Class III equipment.	N/A
2.6.2	Functional earthing	Class III equipment.	N/A
2.6.3	Protective earthing and protective bonding conductors		_
2.6.3.1	General		_
2.6.3.2	Size of protective earthing conductors	Class III equipment.	N/A
	Rated current (A), cross-sectional area (mm²) AWG		_



	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm²)		_
	Protective current rating (A), cross-sectional a (mm²), AWG		_
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω) , voltage drop (V) , current (A) , duration (min)		N/A
2.6.3.5	Colour of insulation	: No such part.	N/A
2.6.4	Terminals	Refer below:	_
2.6.4.1	General	Refer below:	_
2.6.4.2	Protective earthing and bonding terminals	Refer below:	_
	Rated current (A), type, nominal thread diame (mm)		N/A
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	or	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 protective bonding conductors	s and	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 ca distribution system	ble	N/A
2.7	Overcurrent and earth fault protection in prima	ary circuits	
2.7.1	Basic requirements		N/A
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not simulated in 5.3.7		N/A
2.7.3	Short-circuit backup protection		N/A
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



2.10.1.7

	EN 6095	J-1	
Clause	Requirement – Test	Result – Remark	Verdict
2.8	Safety interlocks		
2.8.1	General principles	No safety interlocks.	N/A
2.8.2	Protection requirements	TWO Safety Interfocks.	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 t related circuits (mm)		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		Р
2.9.1	Properties of insulating materials		N/A
2.9.2	Humidity conditioning		Р
	Relative humidity (%), temperature (°C)		_
2.9.3	Grade of insulation	The adequate levels of safety insulation is provided and maintained to comply with the requirements of this standard.	N/A
2.9.4	Separation from hazardous voltages		N/A
	Method(s) used	:	_
2.10	Clearances, creepage distances and distan	 ces through insulation	
2.10.1	General		N/A
2.10.1.1	Frequency	: Considered	N/A
2.10.1.2	Pollution degrees		N/A
2.10.1.3	Reduced values for functional insulation		N/A
2.10.1.4	Intervening unconnected conductive parts		N/A
2.10.1.5	Insulation with varying dimensions		N/A

Insulation in circuits generating starting pulses

N/A



	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
			•
2.10.2	Determination of working voltage		N/A
2.10.2.1	General		N/A
2.10.2.2	RMS working voltage		N/A
2.10.2.3	Peak working voltage		N/A
2.10.3	Clearances		N/A
2.10.3.1	General		N/A
2.10.3.2	Mains transient voltages		N/A
	a) AC mains supply	:	N/A
	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		N/A
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	:	N/A
2.10.3.7	Transients from d.c. mains supply	:	N/A
2.10.3.8	Transients from telecommunication networks 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 netwo	ork :	N/A
2.10.4	Creepage distances		N/A
2.10.4.1	General		N/A
2.10.4.2	Material group and comparative tracking inde	x	N/A
	CTI tests	: Material group IIIb are assumed to be used	_
2.10.4.3	Minimum creepage distances		N/A
2.10.5	Solid insulation		N/A
2.10.5.1	General		N/A
2.10.5.2	Distances through insulation		N/A
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



	EN 60950-	1		
Clause	Requirement – Test	Result	– Remark	Verdict
l .	-			
2.10.5.6	Thin sheet material – General			N/A
2.10.5.7	Separable thin sheet material		Insulation tape for transformer	N/A
	Number of layers (pcs)	:	2 layers	_
2.10.5.8	Non-separable thin sheet material			N/A
2.10.5.9	Thin sheet material – standard test procedure	!		N/A
	Electric strength test			_
2.10.5.10	Thin sheet material – alternative test procedu	re		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 insulation	ı:		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			N/A
	Electric strength test			N/A
	Routine test			N/A
2.10.5.14	Additional insulation in wound components			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			N/A
2.10.6.1	Uncoated printed boards			N/A
2.10.6.2	Coated printed boards			N/A
2.10.6.3	Insulation between conductors on the same in surface of a printed board	nner		N/A
2.10.6.4	Insulation between conductors on different lay a printed board	ers of		N/A
	Distance through insulation			N/A
	Number of insulation layers (pcs)	:		_
2.10.7	Component external terminations			N/A



	EN 609	950-1	
Clause	Requirement – Test	Result – Remark	Verdict
2.10.8	Tests on coated printed boards and coate components	d	N/A
2.10.8.1	Sample preparation and preliminary inspe	ection	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 a insulating compound	nd	N/A
2.10.11	Tests for semiconductor devices and cem joints	ented	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		N/A
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 connection	ns	N/A
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors		N/A
	10 N pull test		N/A
3.1.10	Sleeving on wiring	No sleeving on wire.	N/A
3.2	Connection to a mains supply		Р
3.2.1	Means of connection		_
3.2.1.1	Connection to an a.c. mains supply		N/A
3.2.1.2	Connection to a d.c. mains supply		P
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment		N/A



3.4.1

General requirement

Shenzhen BST Technology Co., Ltd.

	EN 60950-1	
Clause	Requirement – Test Result – Remar	Verdict
	Number of conductors, diameter of cable and conduits (mm)	_
3.2.4	Appliance inlets	N/A
3.2.5	Power supply cords	_
3.2.5.1	AC power supply cords	N/A
	Type	_
	Rated current (A), cross-sectional area (mm²), 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 conductors	
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 (mm²)	_
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
3.3.8	Stranded wire	N/A
3.4	Disconnection from the mains supply	

Report No.: BST16032960A0003Y-1SR-2

N/A



	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
			T
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	ment Dsconnect both plose simultaneously	N/A
3.4.7	Number of poles - three-phase equipment	Single-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
 			i
3.5	Interconnection of equipment		N/A
3.5.1	General requirements	Considered.	_
3.5.2	Types of interconnection circuits	: SELV circuit.	N/A
3.5.3	ELV circuits as interconnection circuits	No SELV.	N/A
3.5.4	Data ports for additional equipment		N/A
4	PHYSICAL REQUIREMENTS		N/A
4.1	Stability		N/A
	Angle of 10°	Mass < 7kg	N/A
	Test force (N)	: The unit is not floor-standing.	N/A
	Tree is a second		1
4.2	Mechanical strength		
4.2.1	General	Complies with the requirement also after tests described below are applied.	Р
	Rack-mounted equipment.	Not rack-mounted equipment.	N/A
4.2.2	Steady force test, 10 N		Р
4.2.3	Steady force test, 30 N	No internal enclosure.	N/A
4.2.4	Steady force test, 250 N	No hazard. The test is performed at enclosure.	N/A
4.2.5	Impact test		N/A
	Fall test		N/A
	Swing test		N/A



Report No.:	BST160	32960A0	0.03Y-1	SR-2
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	EN 60950-	1		
Clause	Requirement – Test	Result	– Remark	Verdict
4.2.6	Drop test; height (mm)	:	No hazard as result from the drop test at 1000mm height.	N/A
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)	:		N/A
4.2.11	Rotating solid media		No such parts provided.	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)	:	No knobs, grips, handles, lever etc.	N/A
4.3.3	Adjustable controls		No hazardous adjustable controls.	N/A
4.3.4	Securing of parts		No loosening of parts impairing creepage distances or clearances is likely to occur.	Р
4.3.5	Connection by plugs and sockets			N/A
4.3.6	Direct plug-in equipment			N/A
	Torque	:	0.2Nm	_
	Compliance with the relevant mains plug stan			N/A
4.3.7	Heating elements in earthed equipment		No heating elements provided.	N/A
4.3.8	Batteries			N/A
	- Overcharging of a rechargeable battery			N/A
	- Unintentional charging of a non-rechargeabl battery	е		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
4.3.12	Flammable liquids	:		N/A
	Quantity of liquid (I)	:		N/A



4.4.5.2

Protection for users

	EN 60950-1		
Clause	Requirement – Test R	esult – Remark	Verdict
			ı
	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	The equipment does not produce significant UV radiation.	N/A
	Part, property, retention after test, flammability classification	:	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation	: The equipment does not produce significant UV radiation.	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	See below	N/A
4.3.13.5.1	Lasers (including laser diodes)	No lasers	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	: No moving parts	N/A
	Household and home/office document/media shredders		N/A
4.4.3	Protection in restricted access locations	: Not intended for installation in RAL.	N/A
4.4.4	Protection in service access areas		N/A
4.4.5	Protection against moving fan blades	No such parts	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

N/A



	EN 60950-1		
Clause	Requirement – Test Res	ult – Remark	Verdict
			1
	Use of symbol or warning		N/A
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	:	N/A
4.5.3	Temperature limits for materials	(see appended table 4.5)	_
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat	:	N/A
4.6	Openings in enclosures		
4.6.1	Top and side openings	Transportable equipment.	N/A
	Dimensions (mm)	:	
4.6.2	Bottoms of fire enclosures	Transportable equipment.	N/A
	Construction of the bottom, dimensions (mm)	:	
4.6.3	Doors or covers in fire enclosures	No doors or covers in fire enclosure.	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		P
7.1.1	Method 1, selection and application of componen wiring and materials	ts	P



5.1.7.1

	Shenzhen BST Technology Co., Ltd. Re	port No.: BST16032960A0003Y-	
	EN 60950-1		
Clause	Requirement – Test	esult – Remark	Verdict
	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		N/A
4.7.3	Materials		Р
4.7.3.1	General		Р
4.7.3.2	Materials for fire enclosures		Р
4.7.3.3	Materials for components and other parts outsi fire enclosures	de	N/A
4.7.3.4	Materials for components and other parts insidence enclosures	e fire	Р
4.7.3.5	Materials for air filter assemblies	No air filters in the equipment.	N/A
4.7.3.6	Materials used in high-voltage components	No parts exceeding 4kV.	N/A
	<u> </u>		-
5	ELECTRICAL REQUIREMENTS AND SIMULA		
5.1	Touch current and protective conductor curren	i T	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. mai supply	ns	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. n supply	nains	N/A
5.1.3	Test circuit		Р
5.1.4	Application of measuring instrument		Р
5.1.5	Test procedure		_
5.1.6	Test measurements		_
	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 m	A	N/A

General



	EN 60950-1			
Clause	Requirement – Test	Result	– Remark	Verdict
5.1.7.2	Simultaneous multiple connections to the supp	ly		N/A
5.1.8	Touch currents to telecommunication networks cable distribution systems and from telecommunication networks	and	Not connected to a telecommunication network nor a cable distribution system.	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribusystem	ution		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 reference to protective earth	10		_
5.2	Electric strength			
5.2.1	General			Р
5.2.2	Test procedure		(see appended table 5.2)	Р
Γ				
5.3	Abnormal operating and fault conditions		†	
5.3.1	Protection against overload and abnormal oper	ation	(see appended table 5.3)	Р
5.3.2	Motors		There is no motors on the equipment.	N/A
5.3.3	Transformers			Р
5.3.4	Functional insulation	:	Complies with c	Р
5.3.5	Electromechanical components		No electromechanical components in secondary circuits.	N/A
5.3.6	Audio amplifiers in ITE	:		N/A
5.3.7	Simulation of faults		(see appended table 5.3)	Р
5.3.8	Unattended equipment			N/A
5.3.9	Compliance criteria for abnormal operating and conditions	fault		Р
5.3.9.1	During the tests			Р
5.3.9.2	After the tests			Р
			·	



	EN 60950-1		
Clause	Requirement – Test	lesult – Remark	Verdict
6	CONNECTION TO TELECOMMUNICATION N	IETWORKS	
6.1	Protection of telecommunication network serving equipment connected to the network, from haz		_
6.1.1	Protection from hazardous voltages		_
6.1.2	Separation of the telecommunication network f	rom earth	_
6.1.2.1	Requirements	No TNV circuit.	N/A
	Supply voltage (V)	:	_
	Current in the test circuit (mA)	:	
6.1.2.2	Exclusions	:	N/A
6.2	Protection of equipment users from overvoltag	es 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 sys	tem from overheating	N/A
	Max. output current (A)	:	—
	Current limiting method	:	
7	CONNECTION TO CARLE DISTRIBUTION S	/CTEMC	
7.1	CONNECTION TO CABLE DISTRIBUTION SY		N/A
7.1	General	Not connected to Cable Distribution System.	IN/A
7.2	Protection of cable distribution system service persons, and users of other equipment connecto the system, from hazardous voltages in the equipment	ited	N/A
7.3	Protection of equipment users from overvoltage the cable distribution system	es on	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
Α	Annex A, TESTS FOR RESISTANCE TO HEA	T AND FIRE	N/A
<u></u>	, among the formation of the formation o		1 1// 1



	EN 60950-1			
Clause	Requirement – Test	esult	– Remark	Verdict
_				
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 k and of stationary equipment (see 4.7.3.2)		Not used.	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 exceeding 18 kg, and for material and compon (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 at	nd 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



Report No.:	BST16032960A0003Y-1SR-2
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	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
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
	Position	:	_
	Manufacturer	:	
	Type	:	_
	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 secon circuits	ndary	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	5.3.3)	N/A
	Position	:	_
	Manufacturer	:	_
	Туре	:	_



	Sherizhen 651 Technology Co., Ltd. Report	No BS110032900A00031	
	EN 60950-1		_
Clause	Requirement – Test Result	t – Remark	Verdict
	Rated values:		
	Method of protection:	Inherent	N/A
C.1	Overload test	(see appended table 5.3)	N/A
C.2	Insulation		N/A
	Protection from displacement of windings:	Fixing by insulation tape	N/A
D	Annex D, MEASURING INSTRUMENTS FOR TOU (see 5.1.4)	CH-CURRENT TESTS	Р
D.1	Measuring instrument		Р
D.2	Alternative measuring instrument		N/A
E	Annex E, TEMPERATURE RISE OF A WINDING (s	see 1.4.13)	N/A
F	Annex F, MEASUREMENT OF CLEARANCES ANI (see 2.10 and Annex G)	O CREEPAGE DISTANCES	Р
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



Report No.:	BST16032960A0003Y-1SR-2
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	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
0.0	<u> </u>		
G.6	Determination of minimum clearances		N/A
H .	Annex H, IONIZING RADIATION (see 4.3.13)		N/A
J	Annex J, TABLE OF ELECTROCHEMICAL P		N/A
	Metal(s) used		_
K	Annex K, THERMAL CONTROLS (see 1.5.3 a	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	` '	N/A
K.4	Temperature limiter endurance; operating volt		N/A
K.5	Thermal cut-out reliability		N/A
K.6	Stability of operation		N/A
L	Annex L, NORMAL LOAD CONDITIONS FOR BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5		CAL
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
M	Annex M, CRITERIA FOR TELEPHONE RING	GING 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)	:	_
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



Report No.:	RST1	60329604	.0003Y-	1SR-2
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	EN 60950	-1	
Clause	Requirement – Test	Result – Remark	Verdict
M.3.2.3	Monitoring voltage (V)	:	N/A
N	Annex N, IMPULSE TEST GENERATORS (\$ 7.3.2, 7.4.3 and Clause G.5)	see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1	,
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)		N/A
	a) Preferred climatic categories	:	N/A
	b) Maximum continuous voltage	:	N/A
	c) Pulse current	:	N/A
R	Annex R, EXAMPLES OF REQUIREMENTS PROGRAMMES	FOR QUALITY CONTROL	
R.1	Minimum separation distances for unpopulat coated printed boards (see 2.10.6.2)	ed	N/A
R.2	Reduced clearances (see 2.10.3)		N/A
S	Annex S, PROCEDURE FOR IMPULSE TES	STING (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	ng	N/A
Т	Annex T, GUIDANCE ON PROTECTION AG (see 1.1.2)	AINST INGRESS OF WATER	N/A
			—
U	Annex U, INSULATED WINDING WIRES FO INSULATION (see 2.10.5.4)	DR USE WITHOUT INTERLEAVED	Р
V	Annex V, AC POWER DISTRIBUTION SYST	TEMS (see 1.6.1)	Р
V.1	Introduction	See below	
V.2	TN power distribution systems		Р
W	Annex W, SUMMATION OF TOUCH CURRE	ENTS	
W.1	Touch current from electronic circuits		N/A
W.1.1	Floating circuits		N/A
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



	Shenzhen BST Technology Co., Ltd. Report No.: BST16032960A0003Y	-1SR-2
	EN 60950-1	
Clause	Requirement – Test Result – Remark	Verdict
W.2.3	Common return, connected to protective earth	N/A
X	Annex X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)	Р
X.1	Determination of maximum input current	Р
X.2	Overload test procedure	Р
Υ	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)	Р
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N/A
BB	ANNEX BB, CHANGES IN THE SECOND EDITION	_
CC	Annex CC, Evaluation of integrated circuit (IC) current limiters	
CC.1	General	N/A
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
	Annex EE, Household and home/office document/media shredders	1
 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



EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
	Test with wedge probe (Figure EE1 and EE2	2):	N/A	

Report No.: BST16032960A0003Y-1SR-2

ATTACHMENT TO TEST REPORT IEC 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

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 - CENELEC COMMON MODIFICATIONS

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

Clause	Requiren	nent + Test	Result - Remark	Verdict
Contents	Add the following annexes:			Р
	Annex ZA (normative) their corresponding Eur		international publications with	
	Annex ZB (normative)	Special national condition	ons	
General	Delete all the "country	" notes in the reference according to the follow	document (IEC 60950-1:2005) ing list:	Р
	1.4.8 Note 2 1.5.8 Note 2 1.5.9.4 2.2.3 Note 2.3.2.1 Note 2 2.3.4 2.7.1 Note 3.2.1.1 Note 4.3.6 Note 1 & 2 4.7.3.1Note 2 5.1.7.1 6 Note 2 & 5 6.2.2 Note 7.1 Note 3 7.2 G.2.1 Note 2 Annex	Note 1.7.2.1 2.2.4 Note 2 2.6.3.3 2.10.3.2 Note 2 3.2.4 Note 3.4.7 Note 4 Note 3 & 4 5.3.7 6.1.2.1 Note 2 6.1.2.2 6.2.2.1 Note 2 6.2.2.2 Note 7	2.10.5.13 Note 3 2.5.1 Note 2 4.7.2.2 Note Note 1	
General (A1:2010)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A1:2010) according to the following list:			Р
(20 10)	1.5.7.1 Note 6.2.2.1 Note 2	6.1.2.1 Note 2 EE.3	Note	



Report No	BST16032960A0003Y-1SR-2	
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	EN 60950-	-1		
Clause	Requirement – Test	Res	sult – Remark	Verdict
1.3.Z1	Add the following subclause:		See separated sound	N/A
	1.3.Z1 Exposure to excessive sound pressure	9	pressure report.	
	The apparatus shall be so designed and constructed as to present no danger when use for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposit to excessive sound pressures from headphone 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	ure es		
	sets with headphones coming from different manufacturers.			
(A12:201	In EN 60950-1:2006/A12:2011			N/A
1)	Delete the addition of 1.3.Z1 / EN 60950-1:200	6		
	Delete the definition 1.2.3.Z1 / EN 60950-1:200 /A1:2010	06		
1.5.1	Add the following NOTE:			N/A
	NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC	t		
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.			N/A
1.7.2.1	In EN 60950-1:2006/A12:2011			Р
(A12.201 1)	Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the exist standard and amendments.			
	Zx Protection against excessive sound pressur	e fr	rom personal music players	Р



	EN 60950	-1	
Clause	Requirement – Test	Result – Remark	Verdict
			<u>'</u>
	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 requirement for earphones and headphones intended for us with personal music players.		N/A
	A personal music player is a portable equipmer for personal use, that: 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. NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobi phones with MP3 type features, PDA's or simil equipment. A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirement.	n le lar	
	of this sub-clause. The requirements in this sub-clause are valid f music or video mode only.	for	
	The requirements do not apply: while the personal music player is connected to an external amplifier; or while the headphones or earphones are not used. NOTE 2 An external amplifier is an amplifier which is not part of the personal music player of the listening device, but which is intended to player.	or	
	The requirements do not apply to: hearing aid equipment and professional equipment; 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.		



	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
	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. NOTE 4 This exemption has been allowed because this technology is falling out of use and is expected that within a few years it will no longer exist. This exemption will not be extend to other technologies.	d it	N/A		
	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.	of			
	Zx.2 Equipment requirements No safety provision is required for equipment the complies with the following: 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 "programm simulation noise" as described in EN 50332-and	e e	N/A		
	a personal music player provided with an analogue electrical output socket for a listent device, where the electrical output is ≤ 27 m measured as described in EN 50332-2, while playing the fixed "programme simulation nois as described in EN 50332-1. 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.				
	All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) 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; and				



	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
			1
	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. 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 ≤ 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 ≤ 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		N/A
	of the song is lower than the average produce by the programme simulation noise, the warnin 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 pressu (long term LAeq,T) which is much lower than the average programme simulation noise. Therefore, if the player is capable	d ng ge	
	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 dBA. 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 dBA, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the so is not above the basic limit of 85 dBA.	n 65	



	EN 60950	-1	
Clause	Requirement – Test Result – Remark		Verdict
	Zx.3 Warning The warning shall be placed on the equipment, on the packaging, or in the instruction manual and shall consist of the following: the symbol of Figure 1 with a minimum height 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, who the user is asked to acknowledge activation of the higher level. Zx.4 Requirements for listening devices (head		N/A
	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 ≥ 75 m. This requirement is applicable in any mode when the headphones can operate (active or passive), including any available setting (for example built-in volume level control).	ne on nV.	N/A
	NOTE The values of 94 dBA – 75 mV corresponding with 85dBA – 27 mV and 100 dBA – 150 mV.	ond	



	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
	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 leve the acoustic output LAeq,T of the listening devishall be ≤ 100 dBA. This requirement is applicable in any mode whethe headphones can operate, including any available setting (for example built-in volume leveontrol, additional sound feature like equalization etc.).	el), ice ere vel	N /A
	NOTE An example of a wired listening device w digital input is a USB headphone.	rith	N/A
	Zx.4.3 Wireless listening devices In wireless mode: 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 abovementioned programme simulation noise the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.	on, he e,	
	NOTE An example of a wireless listening device is a Bluetooth headphone.	e	
	Zx.5 Measurement methods Measurements shall be made in accordance w EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shabe 30 s.		N/A

NOTE Test method for wireless equipment provided without listening device should be

defined.



2.7.2

3.2.3

as providing protection in accordance with the

Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.

This subclause has been declared 'void'.

rating of the wall socket outlet.

	Shenzhen BST Technology Co., Ltd. Ro	eport No.: BST16032960A0003Y	-1SR-2
	EN 60950-		
Clause	Requirement – Test	Result – Remark	Verdic
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):	t e	
	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;	of	
	b) for components in series with the mains inputo 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;	ıt .	
	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.	on,	
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMEN TYPE A the building installation shall be regard.	NT	

N/A

N/A



Report No.: BST1603296	60A0003Y-1SR-2
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		EN 609	50-1		
Clause	Requirement –	Test	Res	sult – Remark	Verdict
			·		
3.2.5.1	Replace	"60245 IEC 53" by "H05 RR "60227 IEC 52" by "H03 VV H03 VVH2-F"; "60227 IEC 53" by "H05 VV H05 VVH2-F2".	'-F or		N/A
	In Table 3B, repfollowing:	place the first four lines by th	е		
		ding 6 0,7 nd including 10 (0,75) b) 1,0 and including 16 (1,0) c) 1,			
		s applicable to Table 3B dele countries" in condition ^{a)} .	te the		
	In NOTE 1, app second sentend	olicable to Table 3B, delete the.	ne		
3.3.4		elete the fourth line: conducto	or		N/A
	4	and including 16 1,5 to 2,5 line: conductor sizes for 13 to			
4.3.13.6		isting NOTE by the following		Considered.	_
(A1:2010)	·	tion is drawn to:	•		
	limitation of exp	Council Recommendation on cosure of the general public to to fields 0 Hz to 300 GHz, and	0		
	safety requirem	rective on the minimum healt nents regarding the exposure a arising from physical agents radiation).	of		
	Recommendati demonstrate co	ng into account mentioned on and Directive which ompliance with the applicable dicated in the OJEC.	e EU	Considered.	_
Annex H	Replace the las	st paragraph of this annex by	:		N/A
	OPERATOR AG	cm from the surface of the CCESS AREA, the dose rate Sv/h (0,1 mR/h) (see NOTE). n of the background level.			
	Replace the no	tes as follows:			
	NOTE These va 96/29/Euratom.	alues appear in Directive			
	Delete NOTE 2	•			



		EN 60950-1		
Clause	Requirement – Test	Result – Remark		Verdict
Bibliograp hy	Additional EN standards.			
ZA	Normative references to internation	nal publications with their corresponding)	_

Report No.: BST16032960A0003Y-1SR-2

	ZB ANNEX (norma	ative)	
	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



Report No.: BST16032960A0003Y-1SR-2		
 -0.4		

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

	ZB ANNEX (norma	ative)	
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)."		



Report No.: BST16032960A0003Y-1SR-2

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

	ZB ANNEX (norma	ative)	
	SPECIAL NATIONAL CONI	DITIONS (EN)	Γ
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



R	eport No.: BST16032960A0003Y-1SR-2

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

	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 6532-2.1991 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					
	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					



Clause

Shenzhen BST Technology Co., Ltd.

Requirement – Test

Ltd.	Report No.: BST16032960A0003Y-1SR-2
FN 60	0950-1

Result - Remark

Verdict

	ZB ANNEX (normative)				
	SPECIAL NATIONAL CONDITIONS (EN)				
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.				



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

Report No.: BST16032960A0003Y-1SR-2

	ZB ANNEX (norma	ative)	
	SPECIAL NATIONAL CON	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 ² to 1,5 mm ² nominal cross-sectional area.		



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

Report No.: BST16032960A0003Y-1SR-2

	ZB ANNEX (normative)			
Clause	SPECIAL NATIONAL CONI 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.		Р	
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.			



Clause

Shenzhen BST Technology Co., Ltd.

Requirement – Test

	-		
EN 60950-	1		

Result - Remark

Report No.: BST16032960A0003Y-1SR-2

Verdict

	ZB ANNEX (normative)							
Clause	SPECIAL NATIONAL CONDITIONS (EN) ause Requirement + Test Result - Remark Ve							
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.							



Clause

Shenzhen BST Technology Co., Ltd.

Requirement – Test

	_
EN 60950-1	

Result – Remark

Report No.: BST16032960A0003Y-1SR-2

Verdict

	ZB ANNEX (norma	ative)		
SPECIAL NATIONAL CONDITIONS (EN)				
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.	No TNV circuits.	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	



Shenzhen BST Technology Co., Ltd.

1.5.1 List of critical components					
object/part No.	manufacturer/tr ademark	type/model	technical data	standard	mark(s) of conformity ¹)
PCB	various	various	V-0. 130°C	111 94	1

Report No.: BST16032960A0003Y-1SR-2

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

1.7.13	TABLE: durability of marking test				
Location		Checked by	Time	Result	
Water 15s No any curling and still le		No any curling and still legibility			
		Petroleum spirit	15s	No any curling and still legibility	

4.5	TABLE: thermal requirements							
	supply voltage (V):	24V	24		_			
	ambient Tmin (°C)	25	25		_			
	ambient Tmax (°C):	25.3	25.3		_			
Maximum measured temperature T of part/at:			allowed T _{max} (°C)					
Enclosure	outside	28.9	28.8		95			
Enclosure	inside	31.1	29.4					
Ambient		25.0	25.0					
Tma= 25°C.								



Report No.: BST16032960A0003Y-1SR-2

ANNEX A:

Photo-documentation



Photo 1 General Appearance of the EUT



Photo 2 General Appearance of the EUT





Photo 3 General Appearance of the EUT

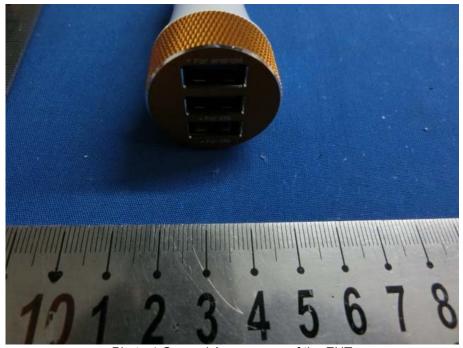


Photo 4 General Appearance of the EUT