

YIWU BINGE ELECTRICAL CO.,LTD.
TEST REPORT

Prepared For:	YIWU BINGE ELECTRICAL CO.,LTD. Room 201, Unit 1, A20, Qingyanliu, Jiangdong Street, Yiwu, Zhejiang, China
Product Name:	WALL SOCKET
Trade Name:	
Main Test Model:	M1-159
Additional Model:	M1-158, M1-159, M2-158, M2-159
Prepared By:	BST Testing (Shenzhen) Co., Ltd.
	No.7,New Era Industrial Zone, Guantian, Bao'an District, Shenzhen, Guangdong, China
Test Date:	Oct. 16, 2019–Oct. 28, 2019
Date of Report:	Oct. 28, 2019
Report No.:	BSTXD191013498501SR



Test Report EN 60950-1

Report No.: BSTXD191013498501SR

Information technology equipment - Safety - Part 1: General requirements

Testing laboratory : BST Testing (Shenzhen) Co., Ltd.

Address No.7, New Era Industrial Zone, Guantian, Bao'an District,

Shenzhen, Guangdong, China

Testing location : BST Testing (Shenzhen) Co., Ltd.

Applicant : YIWU BINGE ELECTRICAL CO.,LTD.

..... Zhejiang, China

Standard : 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 : See page 1

Trademark : See page 1

Model/type reference : See page 1

Rating: 220-240V~, 50/60Hz

Manufacturer : YIWU BINGE ELECTRICAL CO.,LTD.

Zhejiang, China

Test item particulars:

Equipment mobility: For building-in Operation condition: Continuous Class of equipment: Class I 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)



General remarks: "(see remark #)" refers to a remark appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator. 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.

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Artwork of Marking Label

WALL SOCKET Model: M1-159

Rating: 220-240V~, 50/60Hz



Reviewer:

Supervisor

Approved & Authorized Signer:

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	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
1	1 GENERAL		

1.5	Components		Р
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.	Р
1.5.3	Thermal controls	Transformers used are suitable for their intended application and comply with the relevant requirements of the standard and particularly Annex C.	Р
1.5.4	Transformers		N
1.5.5	Interconnecting cables		N
1.5.6	Capacitors bridging insulation		N
1.5.7	Resistors bridging insulation		N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N
1.5.8	Components in equipment for IT power systems	IT for Norway	Р
1.5.9	Surge suppressors		N
1.5.9.1	General		N
1.5.9.2	Protection of VDRs		N



	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
1.5.9.3	Bridging of functional insulation by a VDR		N
1.5.9.4	Bridging of basic insulation by a VDR		N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N

1.6	Power interface		Р
1.6.1	AC power distribution systems	TN, TT	Р
1.6.2	Input current	See table 1.6.2	Р
1.6.3	Voltage limit of hand-held equipment		N
1.6.4	Neutral conductor		Р

1.7	Marking and instructions		Р
1.7.1	Power rating and identification markings		Р
1.7.1.1	Power rating marking		Р
	Multiple mains supply connections:		N
	Rated voltage(s) or voltage range(s) (V)	220-240V~	Р
	Symbol for nature of supply, for d.c. only:		N
	Rated frequency or rated frequency range (Hz):	50/60Hz	Р
	Rated current (mA or A)		Р
1.7.1.2	Identification markings		Р
	Manufacturer's name or trade-mark or identification mark	See page 2 for details.	Р
	Model identification or type reference	See page 1	Р
	Symbol for Class II equipment only:		N
	Other markings and symbols:	No other symbols	N
1.7.2	Safety instructions and marking	See the user manual	Р
1.7.2.1	General		Р
1.7.2.2	Disconnect devices	Power plug	Р
1.7.2.3	Overcurrent protective device	Fuse	Р
1.7.2.4	IT power distribution systems		N
1.7.2.5	Operator access with a tool		N
1.2.7.6	Ozone		N
1.7.3	Short duty cycles		N
1.7.4	Supply voltage adjustment:		N



	EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	Methods and means of adjustment; reference to installation instructions		N	
1.7.5	Power outlets on the equipment		N	
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	See table 1.5.1	Р	
1.7.7	Wiring terminals		N	
1.7.7.1	Protective earthing and bonding terminals:		Р	
1.7.7.2	Terminals for a.c. mains supply conductors		Р	
1.7.7.3	Terminals for d.c. mains supply conductors		Р	
1.7.8	Controls and indicators	No such parts	N	
1.7.8.1	Identification, location and marking		N	
1.7.8.2	Colours		N	
1.7.8.3	Symbols according to IEC 60417	No such symbols	N	
1.7.8.4	Markings using figures	No figures are used.	N	
1.7.9	Isolation of multiple power sources:		N	
1.7.10	Thermostats and other regulating devices:		N	
1.7.11	Durability	The marking withstands required tests.	Р	
1.7.12	Removable parts	No removable parts	N	
1.7.13	Replaceable batteries	No battery used	N	
	Language(s)		—	
1.7.14	Equipment for restricted access locations:	No such access location	N	

2	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy hazards		Р
2.1.1	Protection in operator access areas No hazardous parts in operator access areas		Р
2.1.1.1	Access to energized parts		Р
	Test by inspection	Refer below:	Р
	Test with test finger (Figure 2A)	Cannot touch live part.	Р
	Test with test pin (Figure 2B)	Complies	Р
	Test with test probe (Figure 2C)		N
2.1.1.2	Battery compartments		N
2.1.1.3	Access to ELV wiring		N
	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)		_



	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.1.1.4	Access to hazardous voltage circuit wiring		N
2.1.1.5	Energy hazards:		N
2.1.1.6	Manual controls		N
2.1.1.7	Discharge of capacitors in equipment		N
	Measured voltage (V); time-constant (s)		_
2.1.1.8	Energy hazards – d.c. mains supply		N
	a) Capacitor connected to the d.c. mains supply:		
	b) Internal battery connected to the d.c. mains supply:		_
2.1.1.9	Audio amplifiers		N
2.1.2	Protection in service access areas		N
2.1.3	Protection in restricted access locations		N
			·
2.2	SELV circuits		N
2.2.1	General requirements		N
2.2.2	Voltages under normal conditions (V)		N
2.2.3	Voltages under fault conditions (V)		N
2.2.4	Connection of SELV circuits to other circuits:		N
2.3	TNV circuits		N
2.3.1	Limits	No TNV circuits	N
	Type of TNV circuits:		_
2.3.2	Separation from other circuits and from accessible parts		N
2.3.2.1	General requirements		N
2.3.2.2	Protection by basic insulation		N
2.3.2.3	Protection by earthing		N
2.3.2.4	Protection by other constructions:		N
2.3.3	Separation from hazardous voltages		N
	Insulation employed:		_
2.3.4	Connection of TNV circuits to other circuits		N
	Insulation employed:		
2.3.5	Test for operating voltages generated externally		N
2.4	Limited current circuits		N



	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.4.1	General requirements		N
2.4.2	Limit values		N
	Frequency (Hz)		N
	Measured current (mA)		N
	Measured voltage (V)		N
	Measured circuit capacitance (nF or µF)		N
2.4.3	Connection of limited current circuits to other circuits		N
2.5	Limited power sources		N
	a) Inherently limited output		N
	b) Impedance limited output		N
	c) Regulating network limited output under normal operating and single fault condition		N
	d) Overcurrent protective device limited output		N
	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		
2.6	Provisions for earthing and bonding		Р
2.6.1	Protective earthing		Р
2.6.2	Functional earthing		N
2.6.3	Protective earthing and protective bonding conductors		Р
2.6.3.1	General		Р
2.6.3.2	Size of protective earthing conductors		N
	Rated current (A), cross-sectional area (mm²), AWG:		_
2.6.3.3	Size of protective bonding conductors		Р
	Rated current (A), cross-sectional area (mm²), AWG:	Comply with Cl. 2.6.3.4	_
	Protective current rating (A), cross-sectional area (mm²), AWG:		_
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω) , voltage drop (V), test current (A), duration (min)	Resistance: max. 36mΩ; Test current: 32A; Duration: 2minutes	Р



	EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
2.6.3.5	Colour of insulation:	Green-and-yellow	Р	
2.6.4	Terminals		Р	
2.6.4.1	General		Р	
2.6.4.2	Protective earthing and bonding terminals		Р	
	Rated current (A), type, nominal thread diameter (mm):	Comply with Cl. 2.6.3.4 for bonding terminal; min. thread diameter 4.0mm for protective earthing terminal.		
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		Р	
2.6.5	Integrity of protective earthing		Р	
2.6.5.1	Interconnection of equipment		Р	
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		Р	
2.6.5.3	Disconnection of protective earth		Р	
2.6.5.4	Parts that can be removed by an operator		Р	
2.6.5.5	Parts removed during servicing		Р	
2.6.5.6	Corrosion resistance		Р	
2.6.5.7	Screws for protective bonding		Р	
2.6.5.8	Reliance on telecommunication network or cable distribution system		N	

2.7	2.7 Overcurrent and earth fault protection in primary circuits		Р
2.7.1	Basic requirements	A build-in fuse provided as overcurrent protection device	Р
	Instructions when protection relies on building installation		N
2.7.2	Faults not simulated in 5.3.7		N
2.7.3	Short-circuit backup protection		Р
2.7.4	Number and location of protective devices:	One fuse located at line conductor	Р
2.7.5	Protection by several devices		N
2.7.6	Warning to service personnel:		N

2.8	2.8 Safety interlocks		N
2.8.1	General principles	No such part	N
2.8.2	Protection requirements		N



2.10.2

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Clause	Requirement + Test	Result - Remark	Verdict
2.8.3	Inadvertent reactivation		N
2.8.4	Fail-safe operation		N
	Protection against extreme hazard		N
2.8.5	Moving parts		N
2.8.6	Overriding		N
2.8.7	Switches, relays and their related circuits		N
2.8.7.1	Separation distances for contact gaps and their related circuits (mm):		N
2.8.7.2	Overload test		N
2.8.7.3	Endurance test		N
2.8.7.4	Electric strength test		N
2.8.8	Mechanical actuators		N
2.9	Electrical insulation		Р
2.9.1	Properties of insulating materials	Neither natural rubber, Asbestos or hygroscopic materials are used.	Р
2.9.2	Humidity conditioning	Humidity treatment performed for 48 h.	Р
	Relative humidity (%), temperature (°C)	93%R.H, 26℃	_
2.9.3	Grade of insulation	Basic, supplementary, double and reinforced insulation	Р
2.9.4	Separation from hazardous voltages		Р
	Method(s) used:	Method 1	_
2.10	Clearances, creepage distances and distances t	hrough insulation	P
2.10.1	General		Р
2.10.1.1	Frequency:	Considered	Р
2.10.1.2	Pollution degrees	2	Р
2.10.1.3	Reduced values for functional insulation		Р
2.10.1.4	Intervening unconnected conductive parts		Р
2.10.1.5	Insulation with varying dimensions		N
2.10.1.6	Special separation requirements		N
2.10.1.7	Insulation in circuits generating starting pulses		N

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Determination of working voltage

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.2.1	General		Р
2.10.2.2	RMS working voltage	Max. 240Vrms	Р
2.10.2.3	Peak working voltage	Max. 340Vp	Р
2.10.3	Clearances		Р
2.10.3.1	General		Р
2.10.3.2	Mains transient voltages		Р
	a) AC mains supply:	2500V	Р
	b) Earthed d.c. mains supplies:		N
	c) Unearthed d.c. mains supplies:		N
	d) Battery operation		N
2.10.3.3	Clearances in primary circuits	See appended table 2.10.3 and 2.10.4	Р
2.10.3.4	Clearances in secondary circuits		N
2.10.3.5	Clearances in circuits having starting pulses		N
2.10.3.6	Transients from a.c. mains supply:		N
2.10.3.7	Transients from d.c. mains supply:		N
2.10.3.8	Transients from telecommunication networks and cable distribution systems		N
2.10.3.9	Measurement of transient voltage levels		N
	a) Transients from a mains supply		N
	For an a.c. mains supply:		N
	For a d.c. mains supply:		N
	b) Transients from a telecommunication network :		N
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	Р
2.10.4.3	Minimum creepage distances	See appended table 2.10.3 and 2.10.4	Р
2.10.5	Solid insulation		N
2.10.5.1	General		N
2.10.5.2	Distances through insulation		N
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	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.10.5.3	Insulating compound as solid insulation		N
2.10.5.4	Semiconductor devices		N
2.10.5.5.	Cemented joints		N
2.10.5.6	Thin sheet material – General		N
2.10.5.7	Separable thin sheet material		N
	Number of layers (pcs)		_
2.10.5.8	Non-separable thin sheet material		N
2.10.5.9	Thin sheet material – standard test procedure		N
	Electric strength test		N
2.10.5.10	Thin sheet material – alternative test procedure		N
	Electric strength test		N
2.10.5.11	Insulation in wound components		N
2.10.5.12	Wire in wound components		N
	Working voltage		N
	a) Basic insulation not under stress:		N
	b) Basic, supplementary, reinforced insulation:		N
	c) Compliance with Annex U:		N
	Two wires in contact inside wound component; angle between 45° and 90°:		N
2.10.5.13	Wire with solvent-based enamel in wound components		N
	Electric strength test		N
	Routine test		
2.10.5.14	Additional insulation in wound components		N
	Working voltage		N
	- Basic insulation not under stress:		N
	- Supplementary, reinforced insulation:		N
2.10.6	Construction of printed boards		N
2.10.6.1	Uncoated printed boards		N
2.10.6.2	Coated printed boards		N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N
2.10.6.4	Insulation between conductors on different layers of a printed board		N
	Distance through insulation		N



	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Number of insulation layers (pcs)	:	N
2.10.7	Component external terminations		N
2.10.8	Tests on coated printed boards and coated components		N
2.10.8.1	Sample preparation and preliminary inspection		N
2.10.8.2	Thermal conditioning		N
2.10.8.3	Electric strength test		N
2.10.8.4	Abrasion resistance test		N
2.10.9	Thermal cycling		N
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N
2.10.11	Tests for semiconductor devices and cemented joints		N
2.10.12	Enclosed and sealed parts		N
3	WIRING, CONNECTIONS AND SUPPLY		Р
3.1	General		
3.1.1	Current rating and overcurrent protection		P
3.1.2	Protection against mechanical damage		P
3.1.3	Securing of internal wiring		Р
3.1.4	Insulation of conductors		Р
3.1.5	Beads and ceramic insulators	Not used	N
3.1.6	Screws for electrical contact pressure		N
3.1.7	Insulating materials in electrical connections		N
3.1.8	Self-tapping and spaced thread screws		N
3.1.9	Termination of conductors		Р
	10 N pull test		Р
3.1.10	Sleeving on wiring		N
3.2	Connection to a mains supply		Р
3.2.1	Means of connection	Terminal	Р
3.2.1.1	Connection to an a.c. mains supply		N
3.2.1.2	Connection to a d.c. mains supply	DC inlet	Р
3.2.2	Multiple supply connections		N
3.2.3	Permanently connected equipment		N



	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Number of conductors, diameter of cable and conduits (mm)		_
3.2.4	Appliance inlets		N
3.2.5	Power supply cords		N
3.2.5.1	AC power supply cords		N
	Type:		_
	Rated current (A), cross-sectional area (mm²), AWG		_
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief		N
	Mass of equipment (kg), pull (N)		_
	Longitudinal displacement (mm)		_
3.2.7	Protection against mechanical damage		N
3.2.8	Cord guards		N
	Diameter or minor dimension D (mm); test mass (g)		_
	Radius of curvature of cord (mm):		_
3.2.9	Supply wiring space		N
3.3	Wiring terminals for connection of external cond	luctors	N
3.3.1	Wiring terminals		N
3.3.2	Connection of non-detachable power supply cords		N
3.3.3	Screw terminals		N
3.3.4	Conductor sizes to be connected		N
	Rated current (A), cord/cable type, cross-sectional area (mm²):		_
3.3.5	Wiring terminal sizes		N
	Rated current (A), type, nominal thread diameter (mm):		_
3.3.6	Wiring terminal design		N
3.3.7	Grouping of wiring terminals		N
3.3.8	Stranded wire		N
3.4	Disconnection from the mains supply		Р
3.4.1	General requirement		Р
3.4.2	Disconnect devices	Power Plug.	Р



	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdic
3.4.3	Permanently connected equipment		N
3.4.4	Parts which remain energized		N
3.4.5	Switches in flexible cords		N
3.4.6	Number of poles - single-phase and d.c. equipment		N
3.4.7	Number of poles - three-phase equipment		N
3.4.8	Switches as disconnect devices		N
3.4.9	Plugs as disconnect devices		N
3.4.10	Interconnected equipment		N
3.4.11	Multiple power sources		N
3.5	Interconnection of equipment		Р
3.5.1	General requirements		Р
3.5.2	Types of interconnection circuits	SELV circuit	Р
3.5.3	ELV circuits as interconnection circuits		N
3.5.4	Data ports for additional equipment		N
4	PHYSICAL REQUIREMENTS		Р
4.1	Stability		N
	Angle of 10°		N
	Test force (N)		N
4.2	Mechanical strength		Р
4.2.1	General		Р
7.2.1	Rack-mounted equipment.		N
4.2.2	Steady force test, 10 N	10 N applied to all components other than enclosure.	P
4.2.3	Steady force test, 30 N		N
4.2.4	Steady force test, 250 N	250 N applied to outer enclosure. No energy or other hazards.	Р
4.2.5	Impact test		Р
	Fall test	After test enclosure No energy or other hazards.	Р
	Swing test		Ν
4.2.6	Drop test; height (mm):		Ν



	EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
4.2.7	Stress relief test	70□ , 7h	Р	
4.2.8	Cathode ray tubes		N	
	Picture tube separately certified:		N	
4.2.9	High pressure lamps		N	
4.2.10	Wall or ceiling mounted equipment; force (N):		N	
4.2.11	Rotating solid media		N	
	Test to cover on the door:		N	

4.3	Design and construction		Р
4.3.1	Edges and corners	Edges and corners of the enclosure are rounded.	Р
4.3.2	Handles and manual controls; force (N):		N
4.3.3	Adjustable controls		N
4.3.4	Securing of parts		N
4.3.5	Connection by plugs and sockets		Р
4.3.6	Direct plug-in equipment		N
	Torque:		N
	Compliance with the relevant mains plug standard		N
4.3.7	Heating elements in earthed equipment		N
4.3.8	Batteries		N
	- Overcharging of a rechargeable battery		N
	- Unintentional charging of a non-rechargeable battery		N
	- Reverse charging of a rechargeable battery		N
	- Excessive discharging rate for any battery		N
4.3.9	Oil and grease		N
4.3.10	Dust, powders, liquids and gases		N
4.3.11	Containers for liquids or gases		N
4.3.12	Flammable liquids:		N
	Quantity of liquid (I):		N
	Flash point (°C)		N
4.3.13	Radiation		Р
4.3.13.1	General		Р
4.3.13.2	Ionizing radiation		N



4.5

Thermal requirements

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	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	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
	Part, property, retention after test, flammability classification		N
4.3.13.4	Human exposure to ultraviolet (UV) radiation:		N
4.3.13.5	Lasers (including laser diodes) and LEDs	See below	Р
4.3.13.5.1	Lasers (including laser diodes)		Р
	Laser class		—
4.3.13.5.2	Light emitting diodes (LEDs)	LEDs as display	Р
4.3.13.6	Other types:	Comply with EN 62471	Р
4.4	Protection against hazardous moving parts		N
4.4.1	General	No moving parts	N
4.4.2	Protection in operator access areas:	J	N
	Household and home/office document/media shredders		N
4.4.3	Protection in restricted access locations:		N
4.4.4	Protection in service access areas		N
4.4.5	Protection against moving fan blades		N
4.4.5.1	General		N
	Not considered to cause pain or injury. a)		N
	Is considered to cause pain, not injury. b):		N
	Considered to cause injury.		N
4.4.5.2	Protection for users		N
	Use of symbol or warning:		N
4.4.5.3	Protection for service persons		N
	Use of symbol or warning:		N

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Clause	Requirement + Test	Result - Remark	Verdict
4.5.1	General		Р
4.5.2	Temperature tests	See Table 4.5	Р
	Normal load condition per Annex L		Р
4.5.3	Temperature limits for materials		Р
4.5.4	Touch temperature limits		Р
4.5.5	Resistance to abnormal heat		Р
4.6	Openings in enclosures		N
4.6.1	Top and side openings	No openings	N
	Dimensions (mm)		_
4.6.2	Bottoms of fire enclosures		N
	Construction of the bottomm, dimensions (mm):		_
4.6.3	Doors or covers in fire enclosures		N

4.7	Desistance to fine	В
	- '	
	Conditioning temperature (°C), time (weeks):	_
4.6.5	Adhesives for constructional purposes	N
4.6.4.3	Use of metallized parts	N
4.6.4.2	Evaluation measures for larger openings	N
	Dimensions (mm):	_
4.6.4.1	Constructional design measures	N
4.6.4	Openings in transportable equipment	N
4.6.3	Doors or covers in fire enclosures	Ν
	Construction of the bottomm, dimensions (mm):	
4.6.2	Bottoms of fire enclosures	N

4.7	Resistance to fire		Р
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 4.7	Р
	Method 2, application of all of simulated fault condition tests		N
4.7.2	Conditions for a fire enclosure		Р
4.7.2.1	Parts requiring a fire enclosure Parts not requiring a fire enclosure		Р
4.7.2.2			N
4.7.3	Materials		Р
4.7.3.1	General	PCB: V-0	Р
4.7.3.2	Materials for fire enclosures		Р
4.7.3.3	Materials for components and other parts outside fire enclosures		N



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Clause	Requirement + Test	Result - Remark	Verdict	
4.7.3.4	Materials for components and other parts inside fire enclosures		Р	
4.7.3.5	Materials for air filter assemblies		N	
4.7.3.6	Materials used in high-voltage components		N	

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		Р
5.1	Touch current and protective conductor current		Р
5.1.1	General	See appended table 5.1	Р
5.1.2	Configuration of equipment under test (EUT)		Р
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		Z
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		Z
5.1.3	Test circuit		Р
5.1.4	Application of measuring instrument		Р
5.1.5	Test procedure		Р
5.1.6	Test measurements		Р
	Supply voltage (V):	264V, 50Hz	_
	Measured touch current (mA):	See appended table 5.1	_
	Max. allowed touch current (mA)	See appended table 5.1	
	Measured protective conductor current (mA):		
	Max. allowed protective conductor current (mA):		
5.1.7	Equipment with touch current exceeding 3,5 mA		N
5.1.7.1	General		N
5.1.7.2	Simultaneous multiple connections to the supply		N
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks		N
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		N
	Supply voltage (V):		_
	Measured touch current (mA):		_
	Max. allowed touch current (mA):		_
5.1.8.2	Summation of touch currents from telecommunication networks		N



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Clause	Requirement + Test	Result - Remark	Verdict
	a) EUT with earthed telecommunication ports:		
	b) EUT whose telecommunication ports have no reference to protective earth		_
5.2	Electric strength		Р
5.2.1	General	See appended table 5.2	Р
5.2.2	Test procedure		Р
5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal operation	See below.	Р
5.3.2	Motors	No motors.	N
5.3.3	Transformers		N
5.3.4	Functional insulation	By short circuit	Р
5.3.5	Electromechanical components		N
5.3.6	Audio amplifiers in ITE		N
5.3.7	Simulation of faults		Р
5.3.8	Unattended equipment		N
5.3.9	Compliance criteria for abnormal operating and fault conditions		Р
5.3.9.1	During the tests		Р
5.3.9.2	After the tests		Р
6	CONNECTION TO TELECOMMUNICATION NET	WORKS	N
6.1	Protection of telecommunication network service per equipment connected to the network, from hazards		N
6.1.1	Protection from hazardous voltages		N
6.1.2	Separation of the telecommunication network from	earth	N
6.1.2.1	Requirements		N
	Supply voltage (V):		
	Current in the test circuit (mA):		
6.1.2.2	Exclusions		N
6.2	Protection of equipment users from overvoltage networks	es on telecommunication	N
6.2.1	Separation requirements		N
		1	



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Clause	Requirement + Test	Result - Remark	Verdict
6.2.2	Electric strength test procedure		N
6.2.2.1	Impulse test		N
6.2.2.2	Steady-state test		N
6.2.2.3	Compliance criteria		N

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

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS General	
7.1		
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
7.3	Protection of equipment users from overvoltages on the cable distribution system	N
7.4	Insulation between primary circuits and cable distribution systems	N
7.4.1	General	N
7.4.2	Voltage surge test	N
7.4.3	Impulse test	N



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Clause	Requirement + Test	Result - Remark	Verdict	

Α	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE	N
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.1.1	Samples:	_
	Wall thickness (mm):	_
A.1.2	Conditioning of samples; temperature (°C):	N
A.1.3	Mounting of samples:	N
A.1.4	Test flame (see IEC 60695-11-3)	N
	Flame A, B, C or D:	
A.1.5	Test procedure	N
A.1.6	Compliance criteria	N
	Sample 1 burning time (s):	_
	Sample 2 burning time (s):	_
	Sample 3 burning time (s):	_
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)	
A.2.1	Samples, material:	_
	Wall thickness (mm):	_
A.2.2	Conditioning of samples; temperature (°C):	N
A.2.3	Mounting of samples:	N
A.2.4	Test flame (see IEC 60695-11-4)	N
	Flame A, B or C:	_
A.2.5	Test procedure	N
A.2.6	Compliance criteria	N
	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
_	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



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Clause	Requirement + Test	Result - Remark	Verdict
A.3.1	Mounting of samples		N
A.3.2	Test procedure		N
A.3.3	Compliance criterion		N

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)	
B.1	General requirements	N
	Position:	
	Manufacturer:	_
	Type:	_
	Rated values:	_
B.2	Test conditions	N
B.3	Maximum temperatures	N
B.4	Running overload test	N
B.5	Locked-rotor overload test	N
	Test duration (days):	
	Electric strength test: test voltage (V):	_
B.6	Running overload test for d.c. motors in secondary circuits	N
B.6.1	General	N
B.6.2	Test procedure	N
B.6.3	Alternative test procedure	N
B.6.4	Electric strength test; test voltage (V):	N
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	N
B.7.1	General	N
B.7.2	Test procedure	N
B.7.3	Alternative test procedure	N
B.7.4	Electric strength test; test voltage (V):	N
B.8	Test for motors with capacitors	N
B.9	Test for three-phase motors	N
B.10	Test for series motors	N
	Operating voltage (V):	_

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)	Р	
C	ANNEX C, TRANSI ORNIERS (See 1.5.4 and 5.5.5)	Į.	



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Clause	Requirement + Test	Result - Remark	Verdict
	Position:	T1	_
	Manufacturer:		_
	Type:		_
	Rated values:	Class B	_
	Method of protection:		_
C.1	Overload test		Р
C.2	Insulation		Р
	Protection from displacement of windings:		Р
D	ANNEX D, MEASURING INSTRUMENTS FOR TO (see 5.1.4)	UCH-CURRENT TESTS	Р
D.1	Measuring instrument		Р
D.2	Alternative measuring instrument		N
E	ANNEX E, TEMPERATURE RISE OF A WINDING	(see 1.4.13)	N
F	ANNEX F, MEASUREMENT OF CLEARANCES AN (see 2.10 and Annex G)	ND CREEPAGE DISTANCES	Р
G	ANNEX G, ALTERNATIVE METHOD FOR DETER CLEARANCES	MINING MINIMUM	N
G.1	Clearances		N
G.1.1	General		N
G.1.2	Summary of the procedure for determining minimum clearances		N
G.2	Determination of mains transient voltage (V)		N
G.2.1	AC mains supply:		N
G.2.2	Earthed d.c. mains supplies:		N
G.2.3	Unearthed d.c. mains supplies:		N
G.2.4	Battery operation:		N
G.3	Determination of telecommunication network transient voltage (V):		N
	transiont voltage (v)		
G.4	Determination of required withstand voltage (V)		N
G.4 G.4.1			N N
	Determination of required withstand voltage (V)		



	EN 60950-1		
Clause	Requirement + Test Res	sult - Remark	Verdict
G.4.4	Transients from cable distribution systems		N
G.5	Measurement of transient voltages (V)		N
	a) Transients from a mains supply		N
	For an a.c. mains supply		N
	For a d.c. mains supply		N
	b) Transients from a telecommunication network		N
G.6	Determination of minimum clearances:		N
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)		N
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENT	TALS (see 2.6.5.6)	N
	Metal(s) used:		_
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.	8)	N
K.1	Making and breaking capacity		N
K.2	Thermostat reliability; operating voltage (V):		N
K.3	Thermostat endurance test; operating voltage (V)		N
K.4	Temperature limiter endurance; operating voltage (V):		N
K.5	Thermal cut-out reliability		N
K.6	Stability of operation		N
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	TYPES OF ELECTRICAL	N
L.1	Typewriters		N
L.2	Adding machines and cash registers		N
L.3	Erasers		N
L.4	Pencil sharpeners		N
L.5	Duplicators and copy machines		N
L.6	Motor-operated files		N
L.7	Other business equipment		N
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIG	GNALS (see 2.3.1)	N
M.1	Introduction	, ,	N



	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
M.2	Method A		N
M.3	Method B		N
M.3.1	Ringing signal		N
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
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N
M.3.2.2	Tripping device		N
M.3.2.3	Monitoring voltage (V):		N
N	ANNEX N, IMPULSE TEST GENERATORS (see 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	1.5.7.2, 1.5.7.3, 2.10.3.9,	N
N.1	ITU-T impulse test generators		N
N.2	IEC 60065 impulse test generator		N
			1
P	ANNEX P, NORMATIVE REFERENCES		N
0	ANNEY O Voltage dependent resistare (VDDs)	(acc 4 5 0 4)	NI NI
Q	ANNEX Q, Voltage dependent resistors (VDRs)	<u> </u>	N
	a) Preferred climatic categories:		
	b) Maximum continuous voltage:		
	c) Pulse current:		
R	ANNEX R, EXAMPLES OF REQUIREMENTS FO PROGRAMMES	R QUALITY CONTROL	N
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		N
R.2	Reduced clearances (see 2.10.3)		N
	·		•
S	ANNEX S, PROCEDURE FOR IMPULSE TESTIN	G (see 6.2.2.3)	N
S.1	Test equipment		N
S.2	Test procedure		N
S.3	Examples of waveforms during impulse testing		N



	EN 60950-1		
Clause	Requirement + Test Result	t - Remark	Verdict
Т	ANNEX T, GUIDANCE ON PROTECTION AGAINST ING (see 1.1.2)	RESS OF WATER	N
	Protection against ingress of water		
U	ANNEX U, INSULATED WINDING WIRES FOR USE WIT INSULATION (see 2.10.5.4)	HOUT INTERLEAVED	N
	T		1
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1	1.6.1)	N
V.1	Introduction		N
V.2	TN power distribution systems		N
W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N
W.1	Touch current from electronic circuits		N
W.1.1	Floating circuits		N
W.1.2	Earthed circuits		N
W.2	Interconnection of several equipments		N
W.2.1	Isolation		N
W.2.2	Common return, isolated from earth		N
W.2.3	Common return, connected to protective earth		N
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFOR (see clause C.1)	MER TESTS	Р
X.1	Determination of maximum input current		Р
X.2	Overload test procedure		Р
	T		T
Υ	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST	(see 4.3.13.3)	N
Y.1	Test apparatus:		N
Y.2	Mounting of test samples:		N
Y.3	Carbon-arc light-exposure apparatus:		N
Y.4	Xenon-arc light exposure apparatus:		N
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2	and Clause G 2)	N
_	ANTEN E, OTENTOETAGE OATEOONIEO (SCE 2.10.5.2		



	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N
ВВ	ANNEX BB, CHANGES IN THE SECOND EDITIO	N	N
СС	ANNEX CC, Evaluation of integrated circuit (IC)	current limiters	N
CC.1	General		N
CC.2	Test program 1:		N
CC.3	Test program 2		N
-			N
DD	ANNEX DD, Requirements for the mounting mea equipment	ans of rack-mounted	N
DD.1	General		N
DD.2	Mechanical strength test, variable N		N
DD.3	Mechanical strength test, 250N, including end stops		N
DD.4	Compliance		N
EE	ANNEX EE, Household and home/office docume	ent/media shredders	N
EE.1	General		N
EE.2	Markings and instructions		N
	Use of markings or symbols:		N
	Information of user instructions, maintenance and/or servicing instructions		N
EE.3	Inadvertent reactivation test:		N
EE.4	Disconnection of power to hazardous moving parts:		N
	Use of markings or symbols:		N
EE.5	Protection against hazardous moving parts		N
	Test with test finger (Figure 2A)		N
	Test with wedge probe (Figure EE1 and EE2):		N
			İ



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

Report No.: BSTXD191013498501SR

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_1C_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 (C	ENELEC common modifications El	N)
Clause	Requirement + Test		Result - Remark	Verdict
Contents	Add the following anne	exes:	·	Р
	Annex ZA (normative)		re references to international ons with their corresponding Europea ons	n
	Annex ZB (normative)	Special r	national conditions	
General	Delete all the "country according to the follow		nce document (IEC 60950-1:2005)	Р
	1.5.8 Note 2 1.3 2.2.3 Note 2 2.3 2.3.2.1 Note 2 2.3 2.7.1 Note 2 2.3 3.2.1.1 Note 3.2.4 4.3.6 Note 1 & 2 4.4 4.7.3.1Note 2 5.6 6.2.2 Note 6.3	5.9.4 Note 2.4 Note 3.4 Note 2 10.3.2 Note 2 Note 3. 2.5 7 Note 4 1.7.1 Note 3 & 1.2.1 Note 2	2.10.5.13 Note 3 5.1 Note 2 4.7.2.2 Note 4 5.3.7 Note 1 6.1.2.2 Note 6.2.2.2 Note	
	7.1 Note 3 7.2 G.2.1 Note 2 Ar	Note Note 2	7.3 Note 1 & 2	
General (A1:2010)	Pelete all the coality hotes in the reference accament the coaso-		N	
	1.5.7.1 Note	6.1.2.1	Note 2	
	6.2.2.1 Note 2	EE.3	Note	



	EN 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict		
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure	Not such equipment.	N		
	The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in				
	EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.				
(A12:2011)	In EN 60950-1:2006/A12:2011	Deleted.	N		
	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	Added.	Р		
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.	Added.	N		
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.	Replaced.	N		
	Zx Protection against excessive sound press players	ure from personal music	N		



	EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	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 recorded or	Not such equipment.	N	
	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, mobile phones with MP3 type features, PDA's or similar equipment.			
	A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause.			
	The requirements in this sub-clause are valid for music or video mode only.			
	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 or the listening device, but which is intended to play the music as a standalone music player.			
	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.			
	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 it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.		N	
	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.			



	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Zx.2 Equipment requirements No safety provision is required for equipment that 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 "programme simulation noise" as described in EN 50332-1; and a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. 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	Not such equipment.	N



	EN 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict		
	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.	Not such equipment.	N		
	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. For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only 65 dBA, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dBA.				



	EN 60950-1			
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." Figure 1 – Warning label (IEC 60417-6044)	Not such equipment.	N	
	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. Zx.4 Requirements for listening devices (headph	ones and earphones)	N	
	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 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).	Not such equipment.	N	
	NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.			



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 level), the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.	Not such equipment.	N	
	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.			
	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. NOTE An example of a wireless listening device is a Bluetooth	Not such equipment.	N	
	headphone. 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.	Not such equipment.	N	



EN 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict	
2.7.1	Replace the subclause as follows: Basic requirements To protect against excessive current, short-cir and earth faults in PRIMARY CIRCUITS, prote devices shall be included either as integral parts.	ective	Р	
	the equipment or as parts of the building installation, subject to the following, a), b) and a) except as detailed in b) and c), protective			
	devices necessary to comply with the requirent of 5.3 shall be included as parts of the equipment.			
	b) for components in series with the mains inp the equipment such as the supply cord, applia coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by prote devices in the building installation;	nce		
	c) it is permitted for PLUGGABLE EQUIPMENTYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurren short-circuit protection in the building installating provided that the means of protection, e.g. fus circuit breakers, is fully specified in the installating instructions.	t and on, es or	N	
	If reliance is placed on protection in the buildir installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPME TYPE A the building installation shall be regar as providing protection in accordance with the rating of the wall socket outlet.	NT ded		
2.7.2	This subclause has been declared 'void'.		N	
3.2.3	Delete the NOTE in Table 3A, and delete also this table the conduit sizes in parentheses.	in Deleted.	N	
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".	Replaced.	N	
	In Table 3B, replace the first four lines by the following:			
	Up to and including 6 0,75 ° Over 6 up to and including 10 (0,75) ° 1,0 Over 10 up to and including 16 (1,0) ° 1,5	³⁾ 		
	In the conditions applicable to Table 3B delete words "in some countries" in condition ^{a)} .	the		
	In NOTE 1, applicable to Table 3B, delete the second sentence.			



	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:	Deleted.	N
	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:	Added.	N
(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.		N
Annex H	Replace the last paragraph of this annex by:	Replaced.	N
	At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.		
	Replace the notes as follows:		
	NOTE These values appear in Directive 96/29/Euratom.		
	Delete NOTE 2.		
Bibliograph	Additional EN standards.		
у			

	ZB ANNEX (normative)			
	SPECIAL NATIONAL CONDI	ITIONS (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	
1.2.13.14	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.		N	
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	



	EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict	
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	



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	EN 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	ZB ANNEX (normational conditional conditio	•	
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
	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)."



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

Clause	Requirement + Test	Result - Remark	Verdict
	ZB ANNEX (normat	tive)	
	SPECIAL NATIONAL CONDI	TIONS (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.		
	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."		
ı	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.	No socket-outlet provided.	N
	For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.		
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.	N
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.	N
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.	N
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.		N



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Clause	Requirement + Test	Result - Remark	Verdict

	ZB ANNEX (normative)		
	SPECIAL NATIONAL CONDI	ITIONS (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.		Р
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	N
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:		Z
	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		



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

Clause	Nequilement + rest	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	
	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	
	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

Clause	Requirement + Test	Result - Remark	verdict
	ZB ANNEX (normat	tive)	
	SPECIAL NATIONAL CONDI	TIONS (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
	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
3.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.		N
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
3.3.4	In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is: • 1,25 mm² to 1,5 mm² nominal cross-sectional		N
	area.		



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

0.000	rtoquiroment : root		1 0 1 0 1 0 1
	ZB ANNEX (normat	tive)	
	SPECIAL NATIONAL CONDI	TIONS (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.		N
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
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: • 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.	Not exceed 3.5mA.	N



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

Clause	Requirement + Test	Result - Remark	Verdict
	ZB ANNEX (normat	tive)	
	SPECIAL NATIONAL CONDI	TIONS (EN)	
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	N
	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.		



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

Clause	Requirement + Test	Result - Remark	Verdict
	ZB ANNEX (normat	tive)	
	SPECIAL NATIONAL CONDI	TIONS (EN)	
Clause	Requirement + Test	Result - Remark	Verdict
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).		N
	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	N
7.2	In Finland , Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	Not connected to cable distribution system.	N
7.3	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	Not connected to cable distribution system.	N
7.3	In Norway , for installation conditions see EN 60728-11:2005.	Not connected to cable distribution system	N



1.5.1	TABLE: List of Critical Components					
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity	
РСВ	Various	Various	Various	UL796	E365781	

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1.6.2 TABLE: Electrical Data					mal Condi	tions)		Р
fuse #	Irated (A)	U (V)	F(Hz)	P (W)	I (A)	Ifuse(A)	condition/s	tatus
F1		90	50	102.3	1.24	1.24	Maximum r	normal load
F1		90	60	101.5	1.23	1.23	Maximum r	normal load
F1	4	100	50	102.3	1.11	1.11	Maximum r	normal load
F1	4	100	60	102.3	1.11	1.11	Maximum r	normal load
F1	4	240	50	103.6	0.47	0.47	Maximum r	normal load
F1	4	240	60	102.2	0.46	0.46	Maximum r	normal load
F1		264	50	101.8	0.42	0.42	Maximum r	normal load
F1		264	60	101.6	0.42	0.42	Maximum r	normal load
Supplen	Supplementary information:							
Load wit	Load with rated value.							

1.7.11	TABLE	: Durability of marking		Р			
Location		Checked by	Time	Result			
Adhesive sticker label		Water	15s	No any curling and still legibility			
Adhesive sticker label		Petroleum spirit	15s	No any curling and still legibility			
Supplementary information:							
The above	measure	The above measurements are the maximum values(max.V and max.A not obtained at the same time)					

2.1.1.5 c1)	TABLE	:: Max.V,A,VA test			N		
Voltage(rated) (V)		Current(rated) (A)	Voltage(max.) (V)	Current(max.) (A)	VA(max.) (VA)		
Supplementary information:							
	Supplementary information: The above measurements are the maximum values(max V and max A not obtained at the same time)						

2.2	TABLE: Evaluation of	TABLE: Evaluation of voltage limiting component in SELV circuits					
Componer	nt(measured between)	Max.vol (normal o V peak	5 , ,	Voltage Limi	ting Components		
		-					



Fault test performed on volta	age limiting	Voltage measured(V) in SELV circuits					
components		(V peak or V d.c.)					
Supplementary information:s-c=sh	Supplementary information:s-c=short circuit.						

2.4.2	TABLE: Limited Current Circuits Test									
Location		Voltage	Freq.	Current	Limit (mA)					
		(V)	(Hz)	(mA)						
			-	-	-1					
Supplemen	ntary information:									
-										
*)2Kohm re	esistor is connected betwee	*)2Kohm resistor is connected between output "-"and earth								

2.5	TABLE: Limited power	N					
Circuit output tested:							
Measured	Uoc(V) with all load circ	cuits					
Disconnec	ted:						
		Isc	(A)	VA			
		Meas.	Limit	Meas.	Limit		
Supplementary information:							

2.10.2	TABLE: Worki	Р					
Location		RMS voltage(V)	Peak voltage(V)	Comments			
L to N		240	340				
Suppleme	Supplementary information:						
Input volta	Input voltage: 240V~						



2.10.3 and							
	l) and creepage at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	Measured cl (mm)	Required cr (mm)	Measured cr (mm)
L/N pin and outside accessible parts		340	240	2.0	>2.0	2.5	>2.5
L and N pin o	on input terminal	340	240	2.0	>2.0	2.5	>2.5
L/N and earth terminal bloc	ning pin on input k	340	240	2.0	>2.0	2.5	>2.5
Primary trace to secondary trace under T1		340	240	4.0	>4.0	5.0	>5.0
Supplementary information: Input voltage: 240V~							

2.10.5	TABLE: Distance th	N						
distance through insulation di at/of: Up (V) test voltage requi (V) (m)					di (mm)			
Supplementary	Supplementary information:							

4.2.6	Drop Test	Height: 1000mm	N
Impact Area	Drop Times	Drop No.	Observation



4.3.8	TABLE:	Batteries							N
The tests o		applicable	only when ap	propriate b	attery				
Is it possib	le to install	the battery	in a reverse p	oolarity po	sition?				
	Non-re	chargeable	e batteries		<u> </u>	Recharge	able batte	ries	
	Disch	Discharging Un-			rging	Disch	arging	Reverse	ed charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition									
Max. current during fault condition									
T4									Mondiet
Test result					-				Verdict
- Chemical					-				
- Explosion									
		•	of molten met		-				
			ment after com	pletion of	tests -	-			
Supplemer	ntary inform	nation:							
400	TADI	F. D. (()							
4.3.8		E: Batterie							N
-			····::	(Lithium, N	NIMh, NiCa	ad, Lithium	Ion)		
Manufactui									
Ū			:	 					
			f. No.):						
Circuit prot		• ,							
Zii Zait Pi Ot	- Julion Glag	. 41111							
MARKING	S AND INS	STRUCTIO	NS (1.7.13)						
Location of	f replaceab	le battery							
Language(s)								
Close to th	e battery								

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In the servicing instructions:

In the operating instructions:

4.5	TABLE: Temp	erature Rise Measureme	Р		
Maximum r	measured	Test vol	tage (V)	Allowed	
temperature T of part/at:		90V/50Hz	264V/50Hz	Temperature(°C)	
		Temperature(°C)	Temperature(℃)		
Input wire		43.7	44.5	105	
Metal enclosure		42.5	43.6	70	
Internal wire	Э	44.2	45.1	105	
T1 coil	coil 72.8		73.6	110	
Display		43.6	43.5	70	
Ambient		25.1	25.1		

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4.5.5	5.5 TABLE: Ball pressure test of thermoplastic parts					
	Allowed impression diameter (mm):					
Part		Test temperature ($^{\circ}$ C)	Impression diameter (mm)			

supplementary information:

--

4.7	TABLE: Resistance to	TABLE: Resistance to fire					
Part	Manufacture of material	Type of material	Thickness(mm)	Flammability	Evidence		
РСВ			1.2	V-0			

5.1	Table: Touch curre	Р				
Measured b	Measured between: Measured Limit (mA) Comments		Comments			
L/N to earthed metal part		0.27	3.5			
Supplement	Supplementary information:					
Supply volta	ge: 264V/50Hz					

Add: No.7,New Era Industrial Zone, Guantian, Bao'an District, Shenzhen, Guangdong, China Certificate Search: http://www.bst-lab.com, Tel: 400-882-9628, 8009990305, E-mail:christina@bst-lab.com



5.2	TABLE: Electric strength tests, impulse to	Р				
Test voltage applied between:		Test voltage (V)	Breakdown			
L/N to metal e	enclosure	AC 1500	No			
Primary circui	it to secondary circuit	AC 3000	No			
Supplementary information:						
BI: Basic insulation SI: Supplementary insulation RI: Reinforced insulation; FI: Functional Insulation						

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5.3		TABLE: Fault Condition Tests						Р
	Ambient temperature (°C)				25°C, if not otherwise stated			
		Power source for EUT: Manufacturer, model/type, output rating:			Refer to page 2.			
No.	Compo	nent No.	Fault	Test Voltage (V)	Test Time	Fuse No.	Fuse Current (A)	Result
1	LED p	in + to -	S-C	264	10min			It can be recoverable. No hazard.

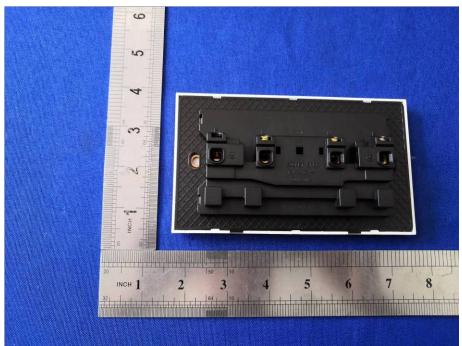
Supplementary information

Fault: S-C=short circuit, O-L =overload, B-L = blocked, O-C =open circuit.

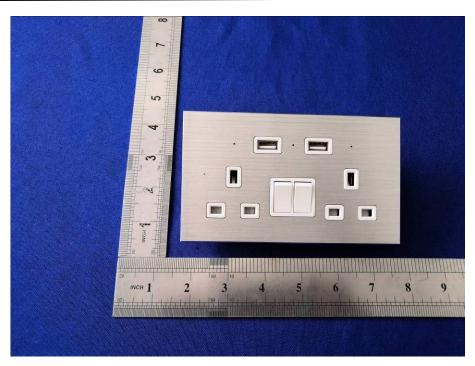
Note: For fuse-opened conditions, same results came out for all sources of fuse. If fuse not open have repeat test three times.

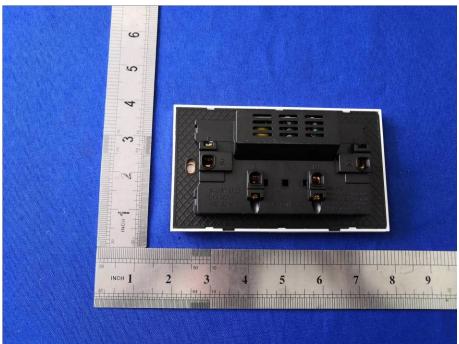












End of the report