

APPLICATION FOR LOW VOLTAGE DIRECTIVE

On Behalf of

WIRELESS SPEAKER SUNGLASSES

Model No.: P326.981

Prepared for : Address:

Prepared By: Shenzhen Alpha Product Testing Co., Ltd.

Address: Building i, No.2, Lixin Road, Fuyong Street, Bao'an District,

518103, Shenzhen, Guangdong, China

Date of Test: December 10-12, 2017

Date of Report: December 12, 2017

Report Number: T1872164 04

Version Number: REV0

TEST REPORT

IEC 60950-1: 2005 (2nd Edition) and/or EN 60950-1:2006 Information technology equipment – Safety – Part 1: General requirements

		apon.
Report Reference No	T1872164 04	APRODUCE
Tested by (name + signature):	Nico Kuai	O Kuent
Approved by (name + signature):	Kaiden Guo	BIM TESTING
Date of issue	December 12, 2017	The state of the s
Testing Laboratory	Shenzhen Alpha Product Testing Co., Ltd.	
Address	Building i, No.2, Lixin Road, Fuyong Street, E Shenzhen, Guangdong, China	3ao'an District, 518103
Testing location / procedure	TL ⊠ RMT □ SMT □ WMT	TMP
Testing location / address	(Same as above.)	
Applicant's name		
Address		
Test specification:		
Standard	☐ IEC 60950-1:2005 (2 nd Edition) + A1:2009 ☐ EN 60950-1:2006 + A11:2009 + A1:2010 -	+ A2: 2013 + A12: 2011 + A2: 2013
Test procedure	LVD approval	
Non-standard test method	N/A	
Test Report Form No	IECEN60950_1	
Test Report Form(s) Originator:	ALPHA	
Master TRF	2014-07	
Test item description	WIRELESS SPEAKER SUNGLASSES	
Trade Mark	N/A	
Manufacturer		
Address		
Model/Type reference	P326.981	
Model difference	N/A	
Ratings	3.7V dc(supplied by build-in battery)	

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Equipment mobility	:		nd-held				
Connection to the mains	:	☐ pluggable equipment☐ permanent connection☐ not directly connecte	on for building-in				
Operating condition	:	⊠ continuous □ s	short-time intermittent				
Over voltage category	:	OVC I OVC II					
Mains supply tolerance (%)	:	N/A					
Tested for IT power systems	:	☐ Yes ⊠ No					
IT testing, phase-phase voltage (V)	:	N/A					
Class of equipment	:	☐ Class I ☐ Clas	s II 🔲 Class III				
Mass of equipment (kg)	:	47.5g					
Considered current rating of protective device as the building installation (A) (IEC/EN 60950-1/A1)		N/A					
Pollution degree	:	□ PD 3					
IP protection class	:	IP20					
Measuring instrument	Inv. no		Date				
(See appendix 1)	(See ap	opendix 1)	(See appendix 1)				
Possible test case verdicts:							
- test case does not apply to the test object	:	N (/A)					
- test object does meet the requirement							
- test object does meet the requirement		i (i ass)					
		F (Fail)					
		• •					
- test object does not meet the requirement	:	• •					
- test object does not meet the requirement Testing:	:	F (Fail)					
- test object does not meet the requirement Testing: Date of receipt of test item	:	F (Fail) December 10, 2017					
- test object does not meet the requirement Testing: Date of receipt of test item Date(s) of performance of tests	::	F (Fail) December 10, 2017 December 10-12, 2017 bject tested.	Issuing testing laboratory.				
- test object does not meet the requirement	to the owithout to the re	F (Fail) December 10, 2017 December 10-12, 2017 bject tested. the written approval of the ided to the report.	Issuing testing laboratory.				
- test object does not meet the requirement	to the owithout to the re	F (Fail) December 10, 2017 December 10-12, 2017 bject tested. the written approval of the ided to the report.	Issuing testing laboratory.				
- test object does not meet the requirement	to the o without to the resured a	F (Fail) December 10, 2017 December 10-12, 2017 bject tested. the written approval of the aded to the report. sport. s the decimal separator.					
- test object does not meet the requirement	to the o without to the result on appending to the result of the result	F (Fail) December 10, 2017 December 10-12, 2017 bject tested. the written approval of the add to the report. eport. s the decimal separator. Dutput of battery is considerappliance.	ered inherently limited				
- test object does not meet the requirement	to the o without to append to the resured a ry. The collass III se at the	December 10, 2017 December 10-12, 2017 bject tested. the written approval of the add to the report. sport. s the decimal separator. butput of battery is considerappliance. manufacturer's recomment	ered inherently limited ided ambient temperature				

Copy of marking	g plate:			
	WIRELES	S SPEAKER SUNGLA	SSES	
	Model No.: P326.981			
	Rating: 3.7Vdc			
	(CE 🗵		
	Manufacturer:			
	Address:			
	Importer: XXX			
	Address: YYY			
Note:				
	the letters is not less than t least 5mm, the height of			than 7mm, height of
	mporter name; YYY means			
•	s been tested according ations taken into accoun		-1:2005 (2nd Edition) / EN 60950-1:2006
□ CENELEC or	common modifications	☐ United Kingdom		
Finland	☐ Denmark	☐ Ireland		
Sweden	☐ Germany	☐ Spain		
☐ Norway	Switzerland			
These tests fulf	il the requirements of stan	dard EN ISO/IEC 17025.		•

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	IEC 60950-1:2005 / EN 6095	50-1:2006	
Clause	Requirement + Test	Result - Remark	Verdict
1	GENERAL		Р
1.5	Components		Р
1.5.1	General	(see appended table 1.5.1)	Р
	Comply with IEC 60950 or relevant component standard	Components that were found to affect safety aspects comply with the requirements of this standard or within the safety aspects of the relevant IEC component standards.	Р
1.5.2	Evaluation and testing of components	Components that are certified to IEC and /or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	Р
1.5.3	Thermal controls	No thermal control, annex K	N
1.5.4	Transformers	No transformer	N
1.5.5	Interconnecting cables		N
1.5.6	Capacitors bridging insulation		N
1.5.7	Resistors bridging insulation	No such resistor	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		N
1.5.9	Surge suppressors		N
1.5.9.1	General		N
1.5.9.2	Protection of VDRs	No such parts	N
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	Relying on the battery to supply power	N
1.6.2	Input current	(See appended table 1.6.2)	N

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	IEC 60950-1:2005 / EN 6095	50-1:2006	
Clause	Requirement + Test	Result - Remark	Verdict
1.6.3	Voltage limit of hand-held equipment	Voltage<250V	Р
1.6.4	Neutral conductor	Class III equipment, no neutral	N
		conductor.	
1.7	Marking and instructions		Р
1.7.1	Power rating and identification markings	See below	Р
1.7.1.1	Power rating marking		Р
	Multiple mains supply connections (IEC/EN 60950-1 /A1):		N
	Rated voltage(s) or voltage range(s) (V):	3.7Vdc(supplied by a 3.7V build-in battery)	Р
	Symbol for nature of supply, for d.c. only:		Р
	Rated frequency or rated frequency range (Hz):		N
	Rated current (mA or A):		N
1.7.1.2	Identification markings(IEC/EN 60950-1 /A1):		Р
	Manufacturer's name or trade-mark or identification mark:	See page 1	Р
	Model identification or type reference:	See page 1	Р
	Symbol for Class II equipment only:	Class III appliance	N
	Other markings and symbols:	Additional sysmbols or marking does not give rise to misunderstanding.	Р
1.7.2	Safety instructions and marking	Safety instruction provided.	Р
1.7.2.1	General		Р
1.7.2.2	Disconnect devices	Not directly connected to the mains	N
1.7.2.3	Overcurrent protective device		N
1.7.2.4	IT power distribution systems		N
1.7.2.5	Operator access with a tool	No such operator access area	N
1.7.2.6	Ozone	No ozone produced.	N
1.7.3	Short duty cycles	Continuous operation.	N
1.7.4	Supply voltage adjustment:	No adjustment used	N
	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):		N
1.7.7	Wiring terminals	See below	N
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment, no	N

IEC 60950-1:2005 / EN 60950-1:2006			
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		protective earthing	
1.7.7.2	Terminals for a.c. mains supply conductors		N
1.7.7.3	Terminals for d.c. mains supply conductors		N
1.7.8	Controls and indicators	See below	Р
1.7.8.1	Identification, location and marking:	It is obviously unnecessary.	N
1.7.8.2	Colours:	The colors used for LED are indicating function. No safety consideration.	Р
1.7.8.3	Symbols according to IEC 60417		N
1.7.8.4	Markings using figures	No figures used.	N
1.7.9	Isolation of multiple power sources:	Not directly connected to the mains	N
1.7.10	Thermostats and other regulating devices:	No thermostats provided.	N
1.7.11	Durability	After rubbing test there was no damage to the label. The marking on the label did not fade. There was neither curling nor lifting of the label edge.	Р
1.7.12	Removable parts	No such parts.	N
1.7.13	Replaceable batteries:		N
	Language(s):	English	_
1.7.14	Equipment for restricted access locations:	Not located in restricted access locations.	N

2	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy hazards	S	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	No energized parts.	Р
	Test by inspection:		N
	Test with test finger (Figure 2A):		N
	Test with test pin (Figure 2B):		N
	Test with test probe (Figure 2C):		N
2.1.1.2	Battery compartments		N
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area.	N
	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)		_
2.1.1.4	Access to hazardous voltage circuit wiring	No hazardous voltage wiring in operator accessible area.	N

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	IEC 60950-1:2005 / EN 6099	50-1:2006	+
Clause	Requirement + Test	Result - Remark	Verdict
2.1.1.5	Energy hazards:	No hazardous energy level in operator accessible area.	N
2.1.1.6	Manual controls	No conductive shafts of operating knobs and handles.	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:		N
	b) Internal battery connected to the d.c. mains supply		N
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		Р
2.2.1	General requirements	Class III appliance	Р
2.2.2	Voltages under normal conditions (V):	Within SELV limits.	Р
2.2.3	Voltages under fault conditions (V):	Ditto.	Р
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

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	IEC 60950-1:2005 / EN 609	50-1:2006	
Clause	Requirement + Test	Result - Remark	Verdict
2.4.1	General requirements		N
2.4.2	Limit values		N
	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
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 (IEC/EN 60950-1 /A1)	(see Annex CC)	N
2.6	Provisions for earthing and bonding		N
2.6.1	Protective earthing	Class III appliance, no protective earthing provided	N
2.6.2	Functional earthing		N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General		N
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		N
	Rated current (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)		N
2.6.3.5	Colour of insulation:		N
2.6.4	Terminals		N

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		T	
2.6.4.1	General		N
2.6.4.2	Protective earthing and bonding terminals		N
	Rated current (A), type, nominal thread diameter (mm)		_
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N
2.6.5	Integrity of protective earthing		N
2.6.5.1	Interconnection of equipment		N
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N
2.6.5.3	Disconnection of protective earth		N
2.6.5.4	Parts that can be removed by an operator		N
2.6.5.5	Parts removed during servicing		N
2.6.5.6	Corrosion resistance		N
2.6.5.7	Screws for protective bonding		N
2.6.5.8	Reliance on telecommunication network or cable distribution system		N
			'
2.7	Overcurrent and earth fault protection in primary	circuits	N
2.7.1	Basic requirements	Secondary circuit only	N
	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		N
2.7.4	Number and location of protective devices:		N
2.7.5	Protection by several devices		N
2.7.6	Warning to service personnel:		N
			·
2.8	Safety interlocks		N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements		N
2.8.3	Inadvertent reactivation		N
2.8.4	Fail-safe operation		N
	Protection against extreme hazard (IEC/EN 60950-1 /A1)		N
2.8.5	Moving parts		N
2.8.6	Overriding		N
2.8.7	Switches and relays and their related circuits		N

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Clause	Requirement + Test	Result - Remark	Verdict
	'		
	(IEC/EN 60950-1 /A1)		
2.8.7.1	Separation distances for contact gaps and their related circuits (mm) (IEC/EN 60950-1 /A1):		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	T.	N
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic materials are not used.	N
2.9.2	Humidity conditioning		N
	Relative humidity (%), temperature (°C):		
2.9.3	Grade of insulation		N
2.9.4	Separation from hazardous voltages		N
	Method(s) used:		_
	1		1
2.10	Clearances, creepage distances and distances th		N
2.10.1	General	Class III equipment	N
2.10.1.1	Frequency ::	Ditto	N
2.10.1.2	Pollution degrees:		N
1.10.1.3	Reduced values for functional insualtion		N
2.10.1.4	Intervening unconnected conductive parts		N
1.10.1.5	Insulation with varying dimensions		N
2.10.1.6	Special separation requirements		N
2.10.1.7	Insulation in circuits generating starting pulses		N
2.10.2	Determination of working voltage		N
2.10.2.1	General		N
2.10.2.2	RMS working voltage		N
2.10.2.3	Peak working voltage		N
2.10.3	Clearances		N
2.10.3.1	General		N
2.10.3.2	Mains transient voltages	Class III equipment	N

a) AC mains supply:

b) Earthed d.c. mains supplies:

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			N		
	c) Unearthed d.c. mains supplies				
0.40.0.0	d) Battery operation		N		
2.10.3.3	Clearances in primary circuits		N		
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 suplply		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		N		
2.10.4.1	General		N		
2.10.4.2	Material group and caomparative tracking index		N		
	CTI tests		_		
2.10.4.3	Minimum creepage distances		N		
2.10.5	Solid insulation		N		
2.10.5.1	General		N		
2.10.5.2	Distances through insulation		N		
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		_		
2.10.5.10	Thin sheet material – alternative test procedure		N		
	Electric strength test		_		
2.10.5.11	Insulation in wound components		N		
2.10.5.12	Wire in wound components		N		

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Clause	Requirement + Test	Result - Remark	Verdict		
Γ		1			
	Working voltage:		N		
	a) Basic insulation not under stress:		N		
	b) Basic, supplemetary, reinforced insulation \ldots		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				
	Routine test		N		
2.10.5.14	Additional insulation in wound components		N		
	Working voltage		N		
	- Basic insulation not under stress:		N		
	- Supplemetary, reinforced insulation:		N		
2.10.6	Construction of printed boards		Р		
2.10.6.1	Uncoated printed boards		Р		
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		
	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		
	MIDING CONNECTIONS AND CURRY		<u> </u>		
3	WIRING, CONNECTIONS AND SUPPLY		N		

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3.1	General		N
3.1.1	Current rating and overcurrent protection	Class III equipment	N
3.1.2	Protection against mechanical damage	No similar part	N
3.1.3	Securing of internal wiring	No similar part	N
3.1.4	Insulation of conductors	No similar part	N
3.1.5	Beads and ceramic insulators	Not used	N
3.1.6	Screws for electrical contact pressure	No any screws used for electrical connection.	N
3.1.7	Insulating materials in electrical connections		N
3.1.8	Self-tapping and spaced thread screws	No self-tapping screws are used.	N
3.1.9	Termination of conductors		N
	10 N pull test		N
3.1.10	Sleeving on wiring		N
3.2	Connection to a mains supply		N
3.2.1	Means of connection	Class III equipment	N
3.2.1.1	Connection to an a.c. mains supply		N
3.2.1.2	Connection to a d.c. mains supply		N
3.2.2	Multiple supply connections		N
3.2.3	Permanently connected equipment		N
	Number of conductors, diameter of cable and conduits (mm)		_
3.2.4	Appliance inlets	No similar Appliance	N
3.2.5	Power supply cords	No power supply cords	N
3.2.5.1	AC power supply cords	Ditto	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)		_

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	Radius of curvature of cord (mm):		_
3.2.9	Supply wiring space		N
3.3	Wiring terminals for connection of external conduc	ctors	N
3.3.1	Wiring terminals	No such 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		N
3.4.1	General requirement	Class III equipment	N
3.4.2	Disconnect devices		N
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		N
3.5.1	General requirements	No interconnection of equipment	N
3.5.2	Types of interconnection circuits:	Symphonic	N
3.5.3	ELV circuits as interconnection circuits		N

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Clause	Requirement + Test	Result - Remark	Verdict
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	See below	Р
	Rack-mounted equipment (IEC/EN 60950-1 /A1)	(see Annex DD)	N
4.2.2	Steady force test, 10 N		Р
4.2.3	Steady force test, 30 N	No similar part	N
4.2.4	Steady force test, 250 N	250 N applied to external enclosure. No energy or other hazards.	Р
4.2.5	Impact test		N
	Fall test		N
	Swing test		N
4.2.6	Drop test; height (mm):	1m; No damage of the enclosure, no energy hazards or damage to enclosure integration after the test.	Р
4.2.7	Stress relief test		N
4.2.8	Cathode ray tubes	No CRT provided.	N
	Picture tube separately certified:		N
4.2.9	High pressure lamps	No high pressure lamps provided.	N
4.2.10	Wall or ceiling mounted equipment; force (N) .:	Not wall or ceiling mounted	Z
4.2.11	Rotating solid media (IEC/EN 60950-1 /A1)		Ν
	Test to cover on the door		N
4.3	Design and construction		Р
4.3.1	Edges and corners	Edges or corners are rounded.	Р
4.3.2	Handles and manual controls; force (N):	No hazardous live parts	N
4.3.3	Adjustable controls	No adjustable controls provided.	N
4.3.4	Securing of parts	No loosening of parts is likely to	N

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Clause	Requirement + Test	Result - Remark	Verdict

		occur.	
4.3.5	Connection by plugs and sockets		N
4.3.6	Direct plug-in equipment	Class III equipment	N
	Torque:		N
	Compliance with the relevant mains plug standard:		N
4.3.7	Heating elements in earthed equipment	No heating elements.	N
4.3.8	Batteries		Р
	- Overcharging of a rechargeable battery		Р
	- Unintentional charging of a non-rechargeable battery		N
	- Reverse charging of a rechargeable battery		Р
	- Excessive discharging rate for any battery	(see appended table 4.3.8)	Р
4.3.9	Oil and grease	No Oil and grease.	N
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N
4.3.11	Containers for liquids or gases	No container for liquids or gases provided.	N
4.3.12	Flammable liquids:	The equipment does not contain flammable liquid.	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	No ionizing radiation	N
	Measured radiation (pA/kg):		
	Measured high-voltage (kV):		_
	Measured focus voltage (kV):		_
	CRT markings		_
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	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 (IEC/EN 60950-1 /A1)		Р
4.3.13.5.1	Lasers (including laser laser diodes)		N
	Laser class		

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Verdict	Result - Remark	Requirement + Test	Clause
Р	Just as Indication function	Light emitting diodes (LEDs)	4.3.13.5.2
N		Other types:	4.3.13.6
N		Protection against hazardous moving parts	4.4
N	No moving parts.	General	4.4.1
N		Protection in operator access areas:	4.4.2
N		Household and home/office document/media shredders (IEC/EN 60950-1 /A1)	
N		Protection in restricted access locations:	4.4.3
N		Protection in service access areas	4.4.4
N		Protection against moving fan blades (IEC/EN 60950-1 /A1)	4.4.5
N		General	4.4.5.1
N		Not considered to cause pain or injury. a):	
N		Is considered to cause pain, not injury b):	
N		Considered to cause injury c)	
N		Protection for users	4.4.5.2
N		Use of symbol or warning:	
N		Protection for service persons	4.4.5.3
N		Use of symbol or warning	
Р		Thermal requirements	4.5
Р		General	4.5.1
Р		Temperature tests	4.5.2
_		Normal load condition per Annex L:	
Р	(see appended table 4.5)	Temperature limits for materials	4.5.3
Р	(see appended table 4.5)	Touch temperature limits	4.5.4
N	No thermoplastic parts on which parts at hazardous voltage are directly mounted.	Resistance to abnormal heat:	4.5.5
Р	_	Openings in enclosures	4.6
N		Top and side openings	4.6.1
		Dimensions (mm):	
N		Bottoms of fire enclosures	4.6.2
		Construction of the bottomm, dimensions (mm):	
		Top and side openings Dimensions (mm): Bottoms of fire enclosures	4.6.1

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Clause	Requirement + Test	Result - Remark	Verdict
4.6.3	Doors or covers in fire enclosures		N
4.6.4	Openings in transportable equipment		Р
4.6.4.1	Constructional design measures		N
	Dimensions (mm)		_
4.6.4.2	Evaluation measures for larger openings		N
4.6.4.3	Use of metallized parts		N
4.6.5	Adhesives for constructional purposes		N
	Conditioning temperature (°C), time (weeks):		_

4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame	Use of plastic with the required flammability classes.	Р
	Method 1, selection and application of components wiring and materials	Method 1 used	Р
	Method 2, application of all of simulated fault condition tests		N
4.7.2	Conditions for a fire enclosure	See appended table 1.5.1	Р
4.7.2.1	Parts requiring a fire enclosure		N
4.7.2.2	Parts not requiring a fire enclosure	SELV circuits only (supplied by LPS), mounted on PCB of HB or better grade.	Р
4.7.3	Materials		Р
4.7.3.1	General	PCB rated V-0	Р
4.7.3.2	Materials for fire enclosures		Ν
4.7.3.3	Materials for components and other parts outside fire enclosures		N
4.7.3.4	Materials for components and other parts inside fire enclosures		N
4.7.3.5	Materials for air filter assemblies	No air filter assemblies	N
4.7.3.6	Materials used in high-voltage components	No high voltage components.	N

5	ELECTRICAL REQUIREMENTS AND SIMULATE	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS	
5.1	Touch current and protective conductor current		N
5.1.1	General	Class III appliance	N
5.1.2	Configuration of equipment under test (EUT)		N
5.1.2.1	Single connection to an a.c. mains supply		N
5.1.2.2	Redundant multiple connections to an a.c. mains supply		N
5.1.2.3	Simultaneous multiple connections to an a.c.		N

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Clause	Requirement + Test	Result - Remark	Verdict	
		T		
	mains supply			
5.1.3	Test circuit		N	
5.1.4	Application of measuring instrument		N	
5.1.5	Test procedure		N	
5.1.6	Test measurements		N	
	Supply voltage (V):		_	
	Measured touch current (mA):		_	
	Max. allowed touch current (mA):		_	
	Measured protective conductor current (mA):			
	Max. allowed protective conductor current (mA):		_	
5.1.7	Equipment with touch current exceeding 3,5 mA		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			
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	Ditto.	N	
	Supply voltage (V):	Ditto.	_	
	Measured touch current (mA):	Ditto.	_	
	Max. allowed touch current (mA):	Ditto.		
5.1.8.2	Summation of touch currents from telecommunication networks	No TNV.	N	
	a) EUT with earthed telecommunication ports .:		N	
	b) EUT whose telecommunication ports have no reference to protective earth		N	
	1		1	
5.2	Electric strength	T	N	
5.2.1	General	Class III equipment	N	
5.2.2	Test procedure		N	
5.3	Abnormal operating and fault conditions		Р	
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	Р	
5.3.2	Motors	No motor	N	
5.3.3	Transformers	No transformers	N	
5.3.4	Functional insulation:	See appended table 5.3. Complies with c)	Р	

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Clause	Requirement + Test	Result - Remark	Verdict
5.3.5	Electromechanical components		N
5.3.6	Audio amplifiers in ITE:		N
5.3.7	Simulation of faults	Decelt and an analysis for	P
		Result see appended table 5.3.	-
5.3.8	Unattended equipment	No flame emitted, no molten	N
5.3.9	Compliance criteria for abnormal operating and fault conditions	material emitted, no deformation of enclosure	Р
5.3.9.1	During the tests	No hazards.	Р
5.3.9.2	After the tests	No fire, no danger.	Р
6	CONNECTION TO TELECOMMUNICATION NE	TWORKS	N
6.1	Protection of telecommunication network service equipment connected to the network, from hazard		N
6.1.1	Protection from hazardous voltages		N
6.1.2	Separation of the telecommunication network from	m 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 overvoltages	on telecommunication networks	N
6.2.1	Separation requirements		N
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
0.0	Destruction of the following state of the st	- Francisco de artico	
6.3	Protection of the telecommunication wiring system	n from overneating	N
	Max. output current (A):		
	Current limiting method		_
7	CONNECTION TO CABLE DISTRIBUTION SYS	TEMS	N
7.1	General		N
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		N

Verdict
N
N
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Sample 3 burning time (s):

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Clause	Requirement + Test	Result - Remark	Verdict		
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		
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)	N
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

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Clause	Requirement + Test	Result - Remark	Verdict
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	3)	N
	Position:	No transformers	
	Manufacturer:		_
	Type:		_
	Rated values:		—
	Method of protection:		_
C.1	Overload test		N
C.2	Insulation		N
	Protection from displacement of windings:		N
D	ANNEX D, MEASURING INSTRUMENTS FOR TO (see 5.1.4)	DUCH-CURRENT TESTS	N
D.1	Measuring instrument		N
D.2	Alternative measuring instrument		N
E	ANNEX E, TEMPERATURE RISE OF A WINDING	s (see 1.4.13)	N
F	ANNEX F, MEASUREMENT OF CLEARANCES A (see 2.10 and Annex G)	ND CREEPAGE DISTANCES	N
T			
G	ANNEX G, ALTERNATIVE METHOD FOR DETER CLEARANCES	RMINING 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
·		·	·

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Claves	IEC 60950-1:2005 / EN 6099	1	\/a mali at
Clause	Requirement + Test	Result - Remark	Verdict
G.4	Determination of required withstand voltage (V)		N
G.4.1	Mains transients and internal repetitive peaks :		N
G.4.2	Transients from telecommunication networks .:		N
G.4.3	Combination of transients		N
G.4.4	Transients from cable distribution systems		N
G.5	Measurement of transient voltages (V)	SELV circuit	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
T			1
J	ANNEX J, TABLE OF ELECTROCHEMICAL POT	ΓENTIALS (see 2.6.5.6)	N
	Metal(s) used:		_
ī			T
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	d 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
			1
L	ANNEX L, NORMAL LOAD CONDITIONS FOR S BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	SOME TYPES OF ELECTRICAL	Р
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	Continuous operation	Р

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	IEC 60950-1:2005 / EN 609	950-1:2006				
Clause	Requirement + Test	Result - Remark	Verdict			
M	ANNEX M, CRITERIA FOR TELEPHONE RING	ING SIGNALS (see 2.3.1)	N			
M.1	Introduction		N			
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			
			<u> </u>			
N	ANNEX N, IMPULSE TEST GENERATORS (se 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	e 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			
Р	ANNEX P, NORMATIVE REFERENCES		_			
Q	ANNEX Q, Voltage dependent resistors (VDRs)	(see 1.5.9.1)	N			
	a) Preferred climatic categories:		N			
	b) Maximum continuous voltage:		N			
	c) Pulse current		N			
			1			
R	Annex R, EXAMPLES OF REQUIREMENTS FO PROGRAMMES	PR 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 TEST	ING (see 6.2.2.3)	N			
S.1	Test equipment		N N			
S.2	Test procedure					

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S.3	Examples of waveforms during impulse testing		N
Т	ANNEX T, GUIDANCE ON PROTECTION AGA (see 1.1.2)	INST INGRESS OF WATER	N
U	ANNEX U, INSULATED WINDING WIRES FO		N
V	ANNEX V, AC POWER DISTRIBUTION SYSTE	MS (see 1.6.1)	N
V.1	Introduction		N
V.2	TN power distribution systems	TN power considered	N
w	ANNEX W, SUMMATION OF TOUCH CURREN	ITS	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 TR	RANSFORMER TESTS	N
X.1	Determination of maximum input current		N
X.2	Overload test procedure		N
Υ	ANNEX Y, ULTRAVIOLET LIGHT CONDI	TIONING 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	e 2.10.3.2 and Clause G.2)	Р
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N
<u> </u>			1

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BB	ANNEX BB, CHANGES IN THE SECOND EDITION	_
CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters (IEC/EN 60950-1 /A1)	N
CC.1	General	N
CC.2	Test program 1:	N
CC.3	Test program 2:	N
		.
DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment (IEC/EN 60950-1 /A1)	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 document/media shredders (IEC/EN 60950-1 /A1)	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

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Clause	Requirement + Test		Result - Remark	Verdict

Contents	:2006 – COMMON					Р
Contento	Add the following a Annex ZA (normati				international rresponding European	•
	Annex ZB (normati	ve)	publications Special nations	onal conditio	ns	
General	Delete all the "cour	•				Р
	according to the fo		the reference	document (ii	LC 00930-1.2003)	
	1.4.8 Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	
	1.5.8 Note 2 2.2.3 Note	1.5.9.4 2.2.4	Note Note	1.7.2.1 2.3.2	Note 4, 5 & 6 Note	
	2.3.2.1 Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	
	2.7.1 Note	2.10.3.2	Note 2	2.10.5.13	Note 3	
	3.2.1.1 Note	3.2.4	Note 3.	2.5.1	Note 2	
	4.3.6 Note 1 & 2		Note 4	4.7.2.2	Note	
	4.7.3.1Note 2 6 Note 2 & 5	5.1.7.1 6.1.2.1	Note 3 & 4 Note 2	5.3.7 6.1.2.2	Note 1 Note	
	6.2.2 Note	6.2.2.1	Note 2	6.2.2.2	Note	
	7.1 Note 3	7.2	Note	7.3	Note 1 & 2	
	G.2.1 Note 2	Annex H	Note 2			
General (A1:2010)	Delete all the "cour 1:2005/A1:2010) a				EC 60950-	Р
	1.5.7.1 Note		6.1.2.1	Note 2		
	6.2.2.1 Note	2	EE.3	Note		
1.3.Z1	Add the following subclause:			N		
	1.3.Z1 Exposure to excessive sound pressure					
	The apparatus shall be so designed and					
	constructed as to present no danger when used					
	for its intended purpose, either in normal					
	operating conditions or under fault conditions,					
	particularly providing protection against exposure to excessive sound pressures from headphones					
	or earphones.					
	NOTE Z1 A new method of measurement is described					
	in EN 50332-1, Sound system equipment:					
	Headphones and earphones associated with portable audio equipment - Maximum sound pressure level					
	measurement methodology and limit considerations -					
	Part 1: General method for "one package equipment",					
	and in EN 50332-2, Sound system equipment:					
	Headphones and earphones associated with portable audio equipment - Maximum sound pressure level					
	measurement methodology and limit considerations -					
	Part 2: Guidelines to associate sets with headphones coming from different manufacturers.					
(A12:2011)				Р		
,	Delete the addition of 1.3.Z1 / EN 60950-1:2006					
	Delete the definitio /A1:2010					
1.5.1	Add the following N	IOTE.				Р
	NOTE Z1 The use of		inces in electric	al		
	and electronic equipresee Directive 2002/9	ment is restrict		-		

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	IEC 60950-1:2005 / EN 6095	50-1:2006	
Clause	Requirement + Test	Result - Remark	Verdict
	Troquille Trost	Treat Tremain	v or area
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
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.		N
	Zx Protection against excessive sound pres	ssure from personal music	N
	players		
	Zx.1 General		N
	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 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.		

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	IEC 60950-1:2005 / EN 609	50-1:2006	
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 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.		
	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,⊤ 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,⊤ is meant. See also Zx.5 and Annex Zx.		N
	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		

IEC 60950-1:2005 / EN 60950-1:2006				
Clause	Requirement + Test		Result - Remark	Verdict

c) provide a means to actively inform the user of Ν 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 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 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 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.

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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:	N
"To prevent possible hearing damage, do not listen at high volume levels for long periods."	
Figure 1 – Warning label (IEC 60417-6044)	
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.	
Zx.4 Requirements for listening devices (headphones and earphones)	N
Zx.4.1 Wired listening devices with analogue input	N
With 94 dBA sound pressure output $L_{Aeq,T}$, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV.	
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).	
NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.	

IEC 60950-1:2005 / EN 60950-1:2006				
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.	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	N
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.	N
NOTE Test method for wireless equipment provided without listening device should be defined.	

	IEC 60950-1:2005 / EN 60950-1:2006			
Clause	Requirement + Test		Result - Remark	Verdict

2.7.1	Replace the subclause as follows:	N
	Basic requirements To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):	
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;	
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	
	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	N
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	
2.7.2	This subclause has been declared 'void'.	Р
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	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".	N
	In Table 3B, replace the first four lines by the following:	
	Up to and including 6 0,75 a) Over 6 up to and including 10 (0,75) b) 1,0 Over 10 up to and including 16 (1,0) c) 1,5	
	In the conditions applicable to Table 3B delete the words "in some countries" in condition a).	
	In NOTE 1, applicable to Table 3B, delete the second sentence.	

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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: 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	N
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: 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).	N
	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: 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.	N
Bibliograph y	Additional EN standards.	_

ZA	NORMATIVE REFERENCES TO INTERNATIONATHEIR CORRESPONDING EUROPEAN PUBLIC	N
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
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).	N
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

IEC 60950-1:2005 / EN 60950-1:2006				50-1:2006	
	Clause	Requirement + Test		Result - Remark	Verdict

1.7.2.1 Ν 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. 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)."

	IEC 60950-1:2005 / EN 60950-1:2006				
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." Translation to Swedish: "Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan	
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	
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	
"Utrustning som är kopplad till skyddsjord via	
utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medfőra risk főr brand. Főr att undvika detta skall vid anslutning av utrustningen till kabel-TV nät	
galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."	
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	N
1-1b or DK 1-5a.	
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.	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.	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.	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
2.7.1 In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.	N
2.10.5.13 In Finland , Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	N

IEC 60950-1:2005 / EN 60950-1:2006				
Clause	Requirement + Test		Result - Remark	Verdict

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: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A	N
	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	N
	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,	
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.	

IEC 60950-1:2005 / EN 60950-1:2006				
Clause	Requirement + Test		Result - Remark	Verdict

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.	
3.2.1.1	In the United Kingdom , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations. NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	Z
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.	Z
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 area.	N

IEC 60950-1:2005 / EN 60950-1:2006				
Clause	Requirement + Test		Result - Remark	Verdict

400	T	
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.	Z

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Clause	Requirement + Test	Result - Remark	Verdict
1		1	1
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:		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. 		
	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.		

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Clause	Requirement + Test	Result - Remark	Verdict
6.1.2.2	In Finland , Norway and Sweden , the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.		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		N

in 6.1.2 being replaced by the term CABLE

In **Norway** and **Sweden**, for requirements see 1.2.13.14 and 1.7.2.1 of this annex.

In **Norway**, for installation conditions see EN 60728-11:2005.

DISTRIBUTION SYSTEM.

7.3

7.3

			5	,		
1.5.1	TABLE: List of critical components					Р
Object/part N	No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
Plastic enclosure		(various)	(various)	V-0, 95°C,	UL 94	UL
PCB		(various)	(various)	V-0, 130℃	UL94	UL
Battery		Shenzhen jinyuzhou Energy Co. Ltd.	501030	3.7V, 110mAh, 0.407W	IEC62133	Report No: T1872164 05
1) An asterisk indicates a mark which assures the agreed level of surveillance						

1.5.1	TABLE: Opto Electronic Devices (IEC	/EN 60950-1 /A1)	N
Manufact	urer		
Туре			
Separately tested:			
Bridqing i	nsulation		
External	creepage distance		
Internal c	reepage distance		
Distance	through insulation		
Tested ur	nder the following conditions		
Input	:		
Output			
suppleme	entary information:		

1.6.2	TABLE: Electrical data (in normal conditions)							
U(V)/f(Hz)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status		
Supplementary information:								

2.1.1.5 c) 1)	TABL	TABLE: Electrical data (in normal conditions) (IEC/EN 60950-1 /A1)							
Voltage (rated) Current (rated (A)		Current (rated) (A)	Voltage (max.) (V)						
Supplementary information:									

2.1.1.7	TABLE: discharge test					
Condition		τ calculated (s)	τ measured (ms)	$t u \rightarrow 0V$ (s)	Comments	

Note:

2.2.2 TA	TABLE: Hazardous voltage measurement					
Transformer	Location	max. V	/oltage	Voltage Limit	ation	
		V peak	V d.c.	Component		
				_	-	
Note:				•		

2.2.3	TABLE: SEL voltage measurement				
Location		Voltage measured (V)	Comments		
Note:					

2.4.2	TABLE: limited current circuit measurement						
Location	Voltage (V)	Current (mA)	Freq. (kHz)	Limit (mA)	Comments		
Notes:							

2.5	TABLE: limited power	TABLE: limited power source measurement						
		Limits	Measured	Verdict				
According to Table 2B(normal condition)								
current (in A)		≤8		N				
apparent power (in VA)		≤100	-	N				
According to	o Table 2B(abnormal o	condition)						
current (in A	A)	≪8	-	N				
apparent power (in VA)		≤100	-	N				
Note(s): the	Note(s): the output of battery is considered inherently limited power source							

2.10.2	Table: working voltage measurement						
Location		Peak voltage (V)	RMS voltage (V)	Comments			
Note:							

2.10.3 and 2.10.4	TABLE: Clearance	TABLE: Clearance and creepage distance measurements					
`	cl) and creepage	U peak	U r.m.s.	Required cl	cl	Required cr	cr
	at/of/between:	(V)	(V)	(mm)	(mm)	(mm)	(mm)

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Supplementary information:			

2.10.5	TABLE: Distance through in	TABLE: Distance through insulation measurements						
Distance thr	ough insulation (DTI) at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)		di (mm)		
Supplement	ary information:							

4.3.8	TABLE: battery char	rge/discharge for batte	ry pack		Р	
Component	Test voltage(VDC)	Abnormal condition Duration Observations				
Battery		Over discharge	7h	The battery no damaged, n harzards.	0	
Battery	5V	Over charge	7h	The battery no damaged		
Battery	5V	Reverse polarity charging	7h	The battery no damaged		

4.5	TABLE: Thermal requir	ements								Р	
	Supply voltage (V)	Supply voltage (V):				je	3.7∖	/ discharg	je		_
Maximum measured temperature T of part/at:						T (°C)			Allowed	d Tmax (°C)
PCB					52.2			55.3			130
Battery surface					49.7			51.2			60
Enclosure, inside					45.4		49.7			Ref.	
Enclosure,	outside				42.2		43.5			95	
Ambient					40.1		40.2			Ref.	
Supplemen	tary information:				_				_		
Temperatur	re T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂	(Ω)	T (°C)		llowed	Insulation class
											-
Supplemen	Supplementary information:										

4.5.5	TABLE: Ball pressure test of thermoplastic parts						
	Allowed impression diameter (mm)						
Part		Test temperature (°C)	Impression (mi				
				-			
Supplement	Supplementary information:						

5.1.6	TABLE	: touch current meas	urement			N
Condition	•	L→ terminal A (mA)	N → terminal A (mA)	Limit (mA)	Comments	

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Report	Nο	T12	721	64	ΩA
Report	INO.	110	<i>1</i> Z I	04	U_{4}

		-	·
Notes: Input voltage):		

5.2.2	TABLE: Electric strength tests	TABLE: Electric strength tests, impulse tests and voltage surge tests							
Test voltage	e applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V ac)	_	akdown s / No				

5.3	TABLE: Fau	ılt condition	tests					Р
	Ambient ten	nperature (°	°C)		:	24-25	_	
		Power source for EUT: Manufacturer, model/type, output rating (see appended table 1.5.1)					_	
Component No.	Fault *	Supply voltage (V)	Test time	Fuse #	Fuse c (A		rrent Observation	
IC	S-C		10min		Unit shutdown hazards.		Unit shutdown, no dama hazards.	iged, no
Supplement	tary informati	on.	•	•	•			

Supplementary information: in fault condition, s-c = short-circuited, o-c = open-circuited, o-l = over-loaded.

No	[Faurings and	Monufocturer	Madal Na	Coriol No	Calibration	Calibration
No.	Equipment	Manufacturer	Model No.	Serial No.	date	due date
SE001	Data Acquisition / Switch Unit	Agilent	34970A	MY44011615	2017.9.28	2018.9.27
SE002	Thermocouple wire	OMEGA	TT-K-30-1000	kxff	2017.9.28	2018.9.27
SE003	Temp. & Humid. Chamber	Gongwen	GDS-250	080943	2017.9.28	2018.9.27
SE004	Oven Chamber	Rongfeng	101A-3	31446	2017.9.28	2018.9.27
SE005	DC Electronic Load	Array	3711A	A06BI03017	2017.9.28	2018.9.27
SE006	DC Electronic Load	Array	3711A	A06BI02095	2017.9.28	2018.9.27
SE007	DC Electronic Load	Array	3711A	A06BI03015	2017.9.28	2018.9.27
SE008	DC Electronic Load	Array	3711A	A06BH02122	2017.9.28	2018.9.27
SE009	Oscilloscope	Tektronix	TDS3012B	YT204842	2017.9.28	2018.9.27
SE010	Digital Power Meter	Qingzhi	8716C	870806042	2017.9.28	2018.9.27
SE011	Digital Power Meter	Qingzhi	8716C	870806037	2017.9.28	2018.9.27
SE012	Ohm Meter	Yang Zi	YD2511	11-2250	2017.9.28	2018.9.27
SE013	Multi Meter	Fluke	115C	96721596	2017.9.28	2018.9.27
SE014	Desktop Multi Meter	Fluke	45	7662018	2017.9.28	2018.9.27
SE015	Desktop Multi Meter	Fluke	45	8095018	2017.9.28	2018.9.27
SE016	Desktop Multi Meter	Fluke	45	6792039	2017.9.28	2018.9.27
SE017	Grounding Bond Meter	Yang Zhi	YD2654B	548-053	2017.9.28	2018.9.27
SE018	Leakage Current Meter	EXTECH	7611	1330848	2017.9.28	2018.9.27
SE019	Insulation Resistance Tester	Yang Zhi	YD9820A	20A-1734	2017.9.28	2018.9.27
SE020	Hi-Pot Tester	Yang Zhi	YD2650A	088	2017.9.28	2018.9.27
SE020 SE021	Electronic Scale	Balance	BCSS-F-6	081050	2017.9.28	2018.9.27
SE022	Push-Pull Scale	Algol	NK-300	67420	2017.9.28	2018.9.27
SE023	Digital Caliper	Yitu	YT211	P840156	2017.9.28	2018.9.27
SE023	Electronic Thermo-Hygrometer	S.H.Qixiang	CTH-608	GC-WS608	2017.9.28	2018.9.27
SE024	Goniometer	Wenzhou	JZC-B2	15032		
			GT-1		2017.9.28	2018.9.27
SE026	Tumbling Barrel	Zhilitong		G010308	2017.9.28	2018.9.27
SE027	Audio Generator	LWDQGS	TAG-101	308909	2017.9.28	2018.9.27
SE028	Noise Generator	DF	DF1681	071001107	2017.9.28	2018.9.27
SE029	Plug Torque Tester	Zhilitong	LJ-1	LJ010908	2017.9.28	2018.9.27
SE030	Test Probe 13	Zhilitong	TP13	D3L15	2017.9.28	2018.9.27
SE031	Test Probe 41	Zhilitiong	TP41	D30L80	2017.9.28	2018.9.27
SE032	Finger Nail Probe	Zhilitong	FN-1	D12N30	2017.9.28	2018.9.27
SE033	Test Finger Probe B	Zhilitong	TF-B	D12J3	2017.9.28	2018.9.27
SE034	Rigid Finger Probe	Zhilitong	RFP	D12N50	2017.9.28	2018.9.27
SE035	Test Probe	Zhilitong	D4L100	60065-913	2017.9.28	2018.9.27
SE036	Test Probe C	Zhilitong	TP-C	60065-915	2017.9.28	2018.9.27
SE037	Test Probe D	Zhilitong	TP-D	60065-914	2017.9.28	2018.9.27
SE038	Test Probe	Zhilitong	FG2C	D12L80	2017.9.28	2018.9.27
SE039	Test hook	Zhilitong	TH-1	W8L180T1	2017.9.28	2018.9.27
SE040	Accessibility Probe	Zhilitong	ZA-1	A1310	2017.9.28	2018.9.27
SE041	UL Finger Probe	Zhilitong	ULP-01	D5L97	2017.9.28	2018.9.27
SE042	Steel Ball	Zhilitong	GQ-1	G121008	2017.9.28	2018.9.27
SE043	Ball Pressure Tester	Sinna	SN3407	08051808	2017.9.28	2018.9.27
SE044	Ball Pressure Tester	Sinna	SN3407	08082302	2017.9.28	2018.9.27
SE045	Hammer	Sinna	SN3406	08083102	2017.9.28	2018.9.27
SE046	Torque Driver	kanon	12LTDK	08G338	2017.9.28	2018.9.27
SE047	Glow Wire Test Set	Sinna	ZRS-2	08091118	2017.9.28	2018.9.27
SE048	Needle Flame Test Set	Sinna	ZY-2	08091125	2017.9.28	2018.9.27
SE049	Switching Mode DC Power Supply	Manson	SIM-9106	G360800228	2017.9.28	2018.9.27
SE050	Hardened steel pin	Zhilitong	SC30	R25N30	2017.9.28	2018.9.27
SE051	Platform scale	shanghai	TGT-100	526	2017.9.28	2018.9.27
SE052	Salt spary tester	Jiahui	JH-60	176358	2017.9.28	2018.9.27
SE053	Test rod	Zhilitong	TZ-14	D40N5	2017.9.28	2018.9.27
SE054	Vibration tester	shengshiwei	SW-TF	20100228	2017.9.28	2018.9.27
SE055	Surge tester	Ceprei	1065A	0503Y01	2017.9.28	2018.9.27
SE056	Digital Power Meter	Qingzhi	8713B1	870909080	2017.9.28	2018.9.27
SE057	Dust chamber	Gongwen	SC-500	100311	2017.9.28	2018.9.27
					+	
SE058	Draught-proof enclosure	Tengbo	TB180	Q100226	2017.9.28	2018.9.27
SE059	Hammer	Zhilitong	CJ-3	C031026	2017.9.28	2018.9.27

No.	Equipment	Manufacturer	Model No.	Serial No.	Calibration date	Calibration due date
SE060	Hammer	Zhilitong	CJ-3	C031027	2017.9.28	2018.9.27
SE061	Hammer	Zhilitong	CJ-3	C031028	2017.9.28	2018.9.27
SE062	Data Acquisition / Switch Unit	Agilent	34970A	US37013205	2017.9.28	2018.9.27
SE063	Leakage Current Tester	Simpson	228	7173286	2017.9.28	2018.9.27
SE064	Temp. & Humid. Chamber	Weihuang	WHTH-1000- 40-880	100631	2017.9.28	2018.9.27
SE065	Salt spary tester	Hengiang	KH-160	1	2017.9.28	2018.9.27
	· ·			2011DNS-		
SE066	Oscillating tube	damsion	DMS-E01	E010401	2017.9.28	2018.9.27
SE067	Spray nozzle	Lihui	LH56	63125	2017.9.28	2018.9.27
SE068	Immersion tester	kunshang	IPX7-1	SK2018M5	2017.9.28	2018.9.27
SE069	Test Probe 18	Aodesaichuang	AUTO-18	auto110721-18- 01	2017.9.28	2018.9.27
SE070	Test Probe 19	Aodesaichuang	AUTO-19	auto110721-19- 02	2017.9.28	2018.9.27
SE071	Data Acquisition / Switch Unit	Agilent	34970A	MY44052414	2017.9.28	2018.9.27
SE072	Data Acquisition / Switch Unit	Agilent	34970A	MY44052411	2017.9.28	2018.9.27
SE073	Digital Power Meter	Yokogawa	WT210	91K223105	2017.9.28	2018.9.27
SE074	Desktop Multi Meter	Agilent	34401A	MY44008459	2017.9.28	2018.9.27
SE075	Desktop Multi Meter	Agilent	34401A	MY44008472	2017.9.28	2018.9.27
SE076	Hi-Pot Tester	ME I RUIKE	RK2672D	RK72D111130- 010	2017.9.28	2018.9.27
SE077	Switching Mode Power Supply	ZHAOXIN	KXN-6030D	KXN.PS.JPS	2017.9.28	2018.9.27
SE078	Torque Driver	Aigu	10DPSK	356019	2017.9.28	2018.9.27
SE079	Magnifying glass	German	10x	12234	2017.9.28	2018.9.27
SE080	Regulated Power Supply	APC	AFC-11010G	F310120052	2017.9.28	2018.9.27
SE081	Air Pressure Gauge	Tianya	N509	/	2017.9.28	2018.9.27
SE082	Step Temperature Room	Long An	LA-ORT28	LA-201206001	2017.9.28	2018.9.27
SE083	"GO" Gauge for E27 Caps	KINGPO	7006-27B-1	8688	2017.9.28	2018.9.27
SE084	"NOT GO" Gauge for E27 Caps	KINGPO	7006-28A-1	8689	2017.9.28	2018.9.27
SE085	"GO" Gauge for dimension "S1" of E27 Caps	KINGPO	7006-27C-1	8691	2017.9.28	2018.9.27
SE086	Gauge for E27 Caps for testing contact making	KINGPO	7006-50-1	8693	2017.9.28	2018.9.27
SE087	Gauge for E27 Caps for testing protection against accidental contact during insertion	KINGPO	7006-51A-2	8690	2017.9.28	2018.9.27
SE088	Oscilloscope	Tektronix	TDS3012B	C010353	2017.9.28	2018.9.27
SE089	Single wing drop tester	FEILING	FL8618	1	2017.9.28	2018.9.27
SE090	Data Acquisition / Switch Unit	Agilent	34970A	MY44006829	2017.9.28	2018.9.27
SE091	Thermocouple wire	OMEGA	TT-J-30-1000	1	2017.9.28	2018.9.27
SE092	Touch current tester	Ceprei	410B	1207AG10	2017.9.28	2018.9.27
SE093	Cord oscillating tester	Dongguan lixiong	LX-1211	1	2017.9.28	2018.9.27
SE094	Lampholder digital torsion meter	Inventfine Instrument Co., Ltd.	CH338	1301004	2017.9.28	2018.9.27
SE095	Straight steel pin	KINGPO	SE095	/	2017.9.28	2018.9.27
SE096	Digital Caliper	Guanglu	SF2000	C1211225254	2017.9.28	2018.9.27
SE097	Digital Caliper	Guanglu	SF2000	C1211225024	2017.9.28	2018.9.27
SE098	Timer	PURSUN	PS-528	1	2017.9.28	2018.9.27
SE099	Timer	PURSUN	PS-528	1	2017.9.28	2018.9.27
SE100	Switching Mode DC Power Supply	GW INSTEK	GPS-1850D	EN820728	2017.9.28	2018.9.27
SE101	Digital Power Meter	EVERFINE	PF9901	1005046	2017.9.28	2018.9.27
SE102	Digital Power Meter	EVERFINE	PF9901	G100731CJ6331 237	2017.9.28	2018.9.27
SE103	Tape line	YANGGUANG	YG-206	1	2017.9.28	2018.9.27
SE104	Electronic Thermo-Hygrometer	UYIGAO	CTH-608	UA13706944	2017.9.28	2018.9.27
SE105	Pressure Gauge	ZHHY	SE105	1	2017.9.28	2018.9.27
SE106	"GO" Gauge for E14 Caps	GRT/china	7006-27F-1	2013053131	2017.9.28	2018.9.27

No.	Equipment	Manufacturer	Model No.	Serial No.	Calibration date	Calibration due date
SE107	"NOT GO" Gauge for E14 Caps	GRT/china	7006-28B-1	2013053126	2017.9.28	2018.9.27
SE108	"GO" Gauge for dimension "S1" of E14 Caps	GRT/china	7006-27G-1	2013053132	2017.9.28	2018.9.27
SE109	Gauge for E14 Caps for testing contact making	GRT/china	7006-54-2	2013053128	2017.9.28	2018.9.27
SE110	Gauge for E14 Caps for testing protection against accidental contact during insertion	GRT/china	7006-55-2	2013053129	2017.9.28	2018.9.27
SE111	"GO" and "NOT GO" Gauge for base GU10	KINGPO	7006-121-1	KingPo12485237	2017.9.28	2018.9.27
SE112	"GO" plug gauge for E12 lampholder	GRT/china	7006-25C-1	20130512135005	2017.9.28	2018.9.27
SE113	"NOT GO" plug gauge for E12 lampholder	GRT/china	7006-26B-1	20130512135006	2017.9.28	2018.9.27
SE114	"GO" Gauge for E26 Caps	GRT/china	7006-27D-3	2013053135	2017.9.28	2018.9.27
SE115	"NOT GO" Gauge for E26 Caps	GRT/china	7006-29L-4	2013053125	2017.9.28	2018.9.27
SE116	"GO" Gauge for E40 Caps	ANGUI TESTING	7006-27-7	20140405	2017.9.28	2018.9.27
SE117	"NOT GO" Gauge for E40 Caps	ANGUI TESTING	7006-28D-1	20140406	2017.9.28	2018.9.27
SE118	Gauge for E40 Caps for testing contact making	ANGUI TESTING	7006-52-1	20140407	2017.9.28	2018.9.27
SE119	Gauge for E40 Caps for testing protection against accidental contact during insertion	ANGUI TESTING	7006-53-1	20140408	2017.9.28	2018.9.27
SE120	"Go" gauge for bi-pin cap on finished lamps G13	KINGPO	7006-45-4	KingPo12485238	2017.9.28	2018.9.27
SE121	"Go" gauge for bi-pin cap on finished lamps G5	KINGPO	7006-46A-3	KingPo12485230	2017.9.28	2018.9.27
SE122	Gauge for three-pin flat-pin plugs (10A)	KINGPO	AS/NZS 3112 Fig A 10A	KingPo12485231	2017.9.28	2018.9.27
SE123	Gauge for three-pin flat-pin plugs (15A)	KINGPO	AS/NZS 3112 Fig A 15A	KingPo12485232	2017.9.28	2018.9.27
SE124	Gauge for three-pin flat-pin plugs (20A)	KINGPO	AS/NZS 3112 Fig A 20A	KingPo12485233	2017.9.28	2018.9.27
SE125	Gauge for two-pin flat-pin plugs with parallel pins	KINGPO	AS/NZS 3112 Fig B	KingPo12485236	2017.9.28	2018.9.27
SE126	Gauge for flat and round pin plugs (two flat live pins and a round earth pin)	KINGPO	AS/NZS 3112 Fig F-A	KingPo12485234	2017.9.28	2018.9.27
SE127	Gauge for flat and round pin plugs (two round live pins and a flat earth pin)	KINGPO	AS/NZS 3112 Fig F-B	KingPo12485235	2017.9.28	2018.9.27
SE128	Transport type simulation vibration tester	KING DESIGN	KD-9363-550- PC	LT0PCLA13003	2017.9.28	2018.9.27
SE129	Oven Chamber	Rongfeng	101A-3	33897	2017.9.28	2018.9.27
SE130	"Go" gauges for caps on finished lamps B22	ANGUI TESTING	7006-11-8	20140404	2017.9.28	2018.9.27
SE131	"Not Go" gauges for caps on finished lamps B22	ANGUI TESTING	7006-10-8	20140403	2017.9.28	2018.9.27
SE132	Gauges for testing the insertion of caps in lampholders B22d	ANGUI TESTING	7006-4A-2	20140401	2017.9.28	2018.9.27
SE133	Gauges for testing the retention of B22d caps in the holder	ANGUI TESTING		20140402	2017.9.28	2018.9.27
SE134	1000:1 Oscillograph Probe	Pintek	HVP-18HF	13010082	2017.9.28	2018.9.27
SE135	100:1 Oscillograph Probe	Pintek	CP-3308R	1	2017.9.28	2018.9.27
SE136	AC power source	All power	APW-150N	930607	2017.9.28	2018.9.27
SE137	Horizonal&vertical tester	AUTOSTRONG	AUTO-SPA	AUTO1033	2017.9.28	2018.9.27
SE138	Tracking index tester	AUTOSTRONG	AUTO-LDA	AUTO1040	2017.9.28	2018.9.27
SE139	Vicat softening tester	AUTOSTRONG	AUTO-WK	1	2017.9.28	2018.9.27
SE140	Electroplated coating thickness tester	Guangzhou Dongru electronic	DR280	9324	2017.9.28	2018.9.27
SE141	Battery Tester	DG	W602	DG2014W60217 72	2017.9.28	2018.9.27
SE142	Test plug for antenna coaxial sockets	ANGUI TESTING	AG- IEC60065F9	1	2017.9.28	2018.9.27
SE143	SHORE D Durometer	Handpi	LX-D	8134006969	2017.9.28	2018.9.27

No.	Equipment	Manufacturer	Model No.	Serial No.	Calibration date	Calibration due date
SE144	Steel Ball	ANGUI TESTING	GQ-2	/	2017.9.28	2018.9.27
SE145	"Go" gauges for caps on finished lamps B15	ANGUI TESTING	7006-11-8	140728017	2017.9.28	2018.9.27
SE146	"Not Go" gauges for caps on finished lamps B15	ANGUI TESTING	7006-10-8	140728010	2017.9.28	2018.9.27
SE147	Gauges for testing the insertion of caps in lampholders B15d	ANGUI TESTING	7006-4A-2	140728004	2017.9.28	2018.9.27
SE148	Gauges for testing the retention of B15d caps in the holder	ANGUI TESTING	7006-4B-1	140728009	2017.9.28	2018.9.27
SE149	"GO" Gauge for E39 Caps	ANGUI TESTING	7006-24B-1	144509	2017.9.28	2018.9.27
SE150	Gauge for E39 Caps for testing contact making	ANGUI TESTING	7006-24A-1	144511	2017.9.28	2018.9.27
SE151	"NOT GO" Gauge for E39 Caps	ANGUI TESTING	7006-24C-1	144510	2017.9.28	2018.9.27
SE152	Noise Generator/filter	ZCTEK	ZC6221	ZC14020178	2017.9.28	2018.9.27
SE153	Hi-Pot Tester	ME I RUIKE	RK2671C	RK71C-BEAI005	2017.9.28	2018.9.27
SE154	Data Acquisition / Switch Unit	Agilent	34970A	MY44064740	2017.9.28	2018.9.27
SE155	PVC componds pressure tester at high temperature	ANGUI TESTING	AG8113F1	1	2017.9.28	2018.9.27
SE156	Low Pressure Tester	BELL	BE-ZK-125	201505250002	2017.9.28	2018.9.27
SE157	Thermal abuse chamber	BELL	BE-101-480B	201505250003	2017.9.28	2018.9.27
SE158	Temperature control short- circuit tester	BELL	BE-1000W	201505250004	2017.9.28	2018.9.27
SE159	Projectile Tester	BELL	BE-6046	201505250005	2017.9.28	2018.9.27
SE160	Test machine for forced internal short circuit of cells	BELL	BE-6045W	201505250006	2017.9.28	2018.9.27
SE161	Crush tester	BELL	BE-6045-2T	201505250007	2017.9.28	2018.9.27
SE162	Rapid temperature test chamber	BELL	BTKS-408C-5	201505250008	2017.9.28	2018.9.27
SE163	Mechanical shock(crash hazard)	BELL	BE-5066	201505250009	2017.9.28	2018.9.27
SE164	Battery Testing System	NEWARE	CT-3008- 5V10A-204	T1505-080859	2017.9.28	2018.9.27
SE165	Battery Testing System	NEWARE	CT-3008- 5V10A-204	T1505-080860	2017.9.28	2018.9.27
SE166	Battery Testing System	NEWARE	CT-3008- 20V6A-A	T1505-080861	2017.9.28	2018.9.27
SE167	Shock tester	LABTONE	HSKT10	L150529	2017.9.28	2018.9.27
SE168	Electromagnetic vibration tester	LABTONE	CV-700	L150530	2017.9.28	2018.9.27
SE169	Electronic scales	JM	JM-A	1	2017.9.28	2018.9.27
SE170	Digital Power Meter	EVERFINE	PF9901	G100731CO1351 143	2017.9.28	2018.9.27
SE171	"GO" and "NOT GO" Gauge for starters	KINGPO	IEC 60155 Fig 6	1	2017.9.28	2018.9.27
SE172	"NOT GO" Gauge for starters	KINGPO	IEC 60155 Fig 7	1	2017.9.28	2018.9.27
SE173	"GO" Gauge for starters	KINGPO	IEC 60155 Fig 8	1	2017.9.28	2018.9.27
SE174	Internal resistance tester	TestPad	BTS-100	IR09100699	2017.9.28	2018.9.27
SE175	DC Electronic Load	PRODIGIT	3302C	80602C 446	2017.9.28	2018.9.27
SE176	DC Electronic Load	PRODIGIT	3302C	25689721698	2017.9.28	2018.9.27
SE177	Data Acquisition / Switch Unit	Agilent	34970A	MY44041739	2017.9.28	2018.9.27
SE178	Data Acquisition / Switch Unit	Agilent	34970A	US37043094	2017.9.28	2018.9.27
SE179	100:1 Oscillograph Probe	Pintek	CP-3308R	1	2017.9.28	2018.9.27
SE180	Digital Power Meter	EVERFINE	PF9901	G100731CN1351 244	2017.9.28	2018.9.27
SE181	Cord oscillating tester	Futexing	FT-CWT03	CWT1604001	2017.9.28	2018.9.27
SE182	Pointer type DC current meter	Shanghai Liangbiao	C31-A	6003	2017.9.28	2018.9.27
SE183	Three phase ammeter	Chengdu Huayi	PMH8161-9K4	20100604801	2017.9.28	2018.9.27
SE184	Shunt	pulianchuang	FL-2/0.5 50A	/	2017.9.28	2018.9.27
SE185	Shunt	pulianchuang	FL-2/0.5 200A	/	2017.9.28	2018.9.27
SE186	Creepage distance testing card- Straight card	ANGUI TESTING	SE-A141	1	2017.9.28	2018.9.27
SE187	Creepage distance testing card- Bending card	ANGUI TESTING	SE-A142	/	2017.9.28	2018.9.27

No.	Equipment	Manufacturer	Model No.	Serial No.	Calibration date	Calibration due date
SE188	Conductivity Meters	leici	DDS-11A	163	2017.9.28	2018.9.27
SE189	Manual Supercharger	Zhejiang Yuhuang	SB-10Mpa	1	2017.9.28	2018.9.27
SE190	Grounding resistance meter	hangzhoudongsh un	ZC29B-2	1	2017.9.28	2018.9.27
SE191	AC power source	All power	AFW-210A	992429	2017.9.28	2018.9.27
SE192	Digital Power Meter	EVERFINE	PF9901	G135716CM5361 147	2017.9.28	2018.9.27
SE193	High Accuracy Array Spectrora	EVERFINE	HAAS-2000- IR1	M112279CM1361 113	2017.9.23	2018.9.22
SE194	UV-VIS-NIR Spectroradiometer for Photobiological Safety Analysis	EVERFINE	PMS-700	G107114CJ1341 112	2017.9.20	2018.9.19
SE195	Band Radiometer	EVERFINE	RD-2000F	G114280CM1361 115	2017.9.21	2018.9.20
SE196	Pupil Imaging Radiance Meter	EVERFINE	CX-2K	G132536CF1361 113	2017.9.21	2018.9.20
SE197	Digital Power Meter	EVERFINE	PF9811	G135717CJ7361 129	2017.9.19	2018.9.18
SE198	Digital CC&CV DC Power Supply	EVERFINE	WY3010	G111418CM5361 135	2017.9.19	2018.9.18
SE199	AC Power Source	EVERFINE	DPS1005	G119890CJ6361 133	2017.9.19	2018.9.18
SE200	Spectral irradiance standard lamp	EVERFINE	D204BH	G100284CA1361 114	2016.9.24	after ignited 50 hours
SE201	Standard luminance source	EVERFINE	SLS-150	G137329CJ6361 112	2016.9.24	after ignited 50 hours
SE202	Standard lamp of ultraviolet radiation	EVERFINE	SIS-631	G110132CA1361 120	2016.9.24	after ignited 50 hours
SE203	Falling water drops device	Gongwen	DJ-B	1	2017.9.28	2018.9.27
SE204	Continuous immersion in water device	Gongwen	X8	161130	2017.9.28	2018.9.27
SE205	Torque Driver	kanon	30LTDK	1	2017.9.28	2018.9.27
SE206	Gauge for single-phase two- pole plug	ANGUI TESTING	AGGB02F6	1	2017.9.28	2018.9.27
SE207	"GO" and "Not Go" Gauge for plug pins	ANGUI TESTING	AGENF1GO	1	2017.9.28	2018.9.27
SE208	Gauge for pin diameter	ANGUI TESTING	AGENF2	1	2017.9.28	2018.9.27
SE209	Gauge for checking impossibility of single-pole insertion of into socket-outlets	ANGUI TESTING	AGENF4	/	2017.9.28	2018.9.27
SE210	Gauge for plug pins	ANGUI TESTING		1	2017.9.28	2018.9.27
SE211	12.5mm steel ball	ANGUI TESTING		1	2016.12.20	2017.12.19
SE212	Electronic Thermo-Hygrometer	Boyang	HTC-1	SE212	2016.12.20	2017.12.19
SE213	Electronic Thermo-Hygrometer	Boyang	HTC-1	SE213	2016.12.20	2017.12.19
SE214	Electronic Thermo-Hygrometer	Boyang	HTC-1	SE214	2016.12.20	2017.12.19
SE215	Electronic Thermo-Hygrometer	Boyang	HTC-1	SE215	2016.12.20	2017.12.19
SE216	Electronic Thermo-Hygrometer	Boyang	HTC-1	SE216	2016.12.20	2017.12.19
SE217	Electronic Thermo-Hygrometer	Boyang	HTC-1	SE217	2016.12.20	2017.12.19
SE218	Visual IR Thermometer	FLUKE	VT04	VT04-14060109	2016.12.20	2017.12.19
SE219	Industrial microscope	SAIKEDIGITAL	SK2610B	10007	2017.6.28	2018.6.27
SE220 SE221	Leakage Current Tester Portable Ground Fault Circuit Interrupter (GFCI)	Simpson Technology research, LLC	229-2 25000	12267	2017.9.28	2018.9.27 2018.6.27
SE222	"GO" Gauge for starters for class II fluorescent luminaires	ANGUI TESTING	IEC 60155 Fig B.2	1	2017.6.28	2018.6.27
SE223	Ingestion gauge	ANGUI TESTING		/	2017.9.28	2018.9.27
SE224	Heating enclosure for thermally protected ballasts	ANGUI TESTING	İ	1	2017.9.28	2018.9.27
SE225	Battery Testing System	NEWARE	CT-4008- 6V4A-CCDL	T1505-080859	2017.9.28	2018.9.27

Appendix 2 Photo documentation





Photo documentation



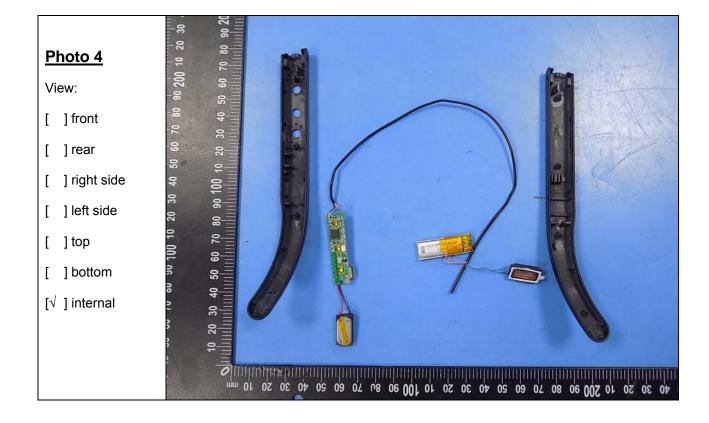
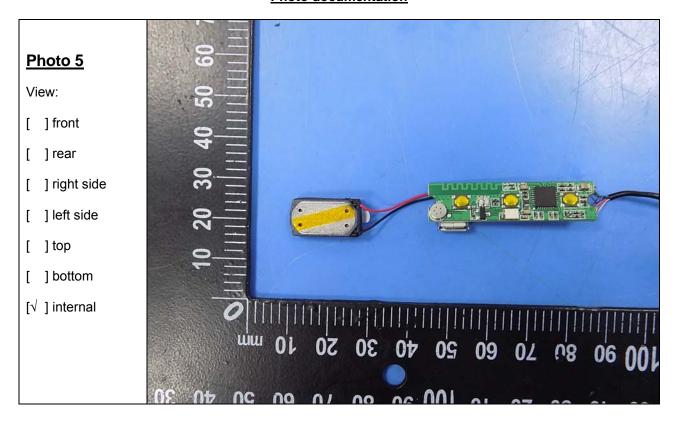


Photo documentation



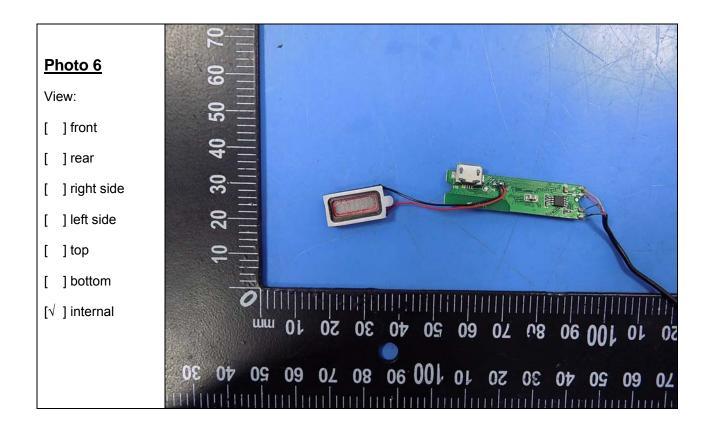
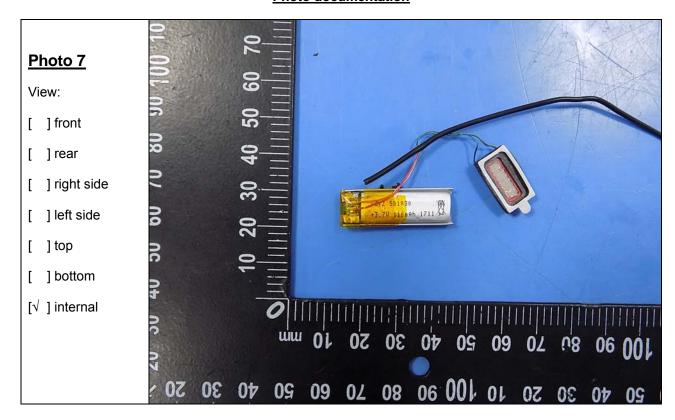


Photo documentation



--End of report--