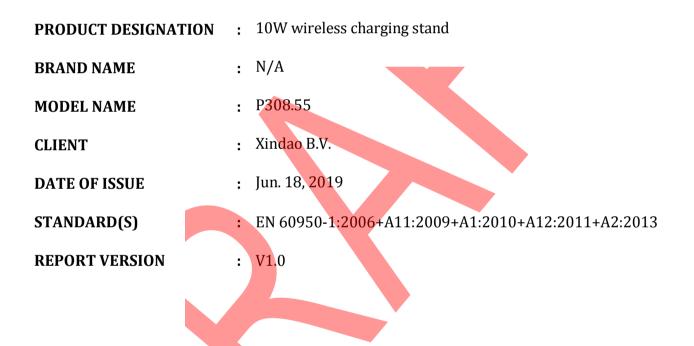
# Safety Test Report

Report No.: AGC04094190605ES01



### Attestation of Global Compliance (Shenzhen) Co., Ltd.

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TEST REPORT				
EN 60950-1				
Inform	nation technology equipment-Safety-			
	Part 1: General requirements			
Report Reference No:	AGC04094190605ES01			
Tested by (+ signature):	Grind Mao			
Reviewed by (+ signature):	Byron Wang			
Approved by (+signature):	Matte He (Authorized Officer)			
Date of issue:	Jun. 18, 2019			
Contents:	Total 51 pages.			
Testing laboratory				
Name	Attestation of Global Compliance (Shenzhen) Co., Ltd.			
Address 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China				
Testing location:	Same as above.			
Applicant				
Name	Xindao B.V.			
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands			
Manufacturer				
Name:	X <mark>inda</mark> o B.V.			
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands			
Factory				
Name	Xindao B.V.			
Address	P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands			
Test specification				
Standard	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013			
Test procedure:	Type test			
Procedure deviation	N/A			
Non-standard test method:	N/A			

Fest Report Form/blank test report				
Fest Report Form No AGC60950A9				
Test Report Form(s) Originator: AGC				
Master TRF Dated 2018-09				
Fest item				
Product designation 10W wireless charging stand				
Brand name: N/A				
Fest model P308.55				
Series model N/A				
Rating(s)				
Particulars				
Equipment mobilityEquipment mobility				
Connection to the mains				
<pre>detachable power supply cord</pre>				
⊠not directly connected to the mains				
Operating condition				
rated operating/ resting time:				
Access location				
Over voltage category(OVC)				
Mains supply tolerance(%) or absolute mains supply				
/aiues				
Γested for IT power systems				
T testing, phase-phase voltage(V) N/A				
Class of EquipmentClass II Class II Class II Class II Class II Class II				
Considered current rating of protective device as part N/A				
Pollution degree(PD)PD1				
Protection against ingress of water				
Altitude during operation (m)				
Altitude of test laboratory (m)				
Mass of equipment (kg)				

Test case verdicts	6				
Test case does not	apply to the test	object:	N (/A)		
Test item does mee	t the requiremer	ıt:	P (ass)		
Test item does not r	meet the require	ment:	F (ail)		
Testing					
Date of receipt of te	st item	:	Jun. 11, 2019		
Date(s) of performa	nce of test	:	Jun. 11 – Jun. 18	, 2019	
Attachment					
Attachment A		:	Photos of produc	t	
This report shall not be reproduced except in full without the written approval of the testing laboratory.         The test results presented in this report relate only to the item tested.         "(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.         Report Revise Record:         Report Version       Revise Time         Issued Date       Valid Version         V1.0       /         Jun. 18, 2019       Valid					
General product ir	formation				
The Wireless charger supplied by approved AC charger, which is considered as movable and Class III (supplied by SELV). Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold. The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of 40°C. Summary of testing					
The test item passe	-				

#### Copy of marking plates

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

10W wireless charging stand	
Model: P308.55	CE
Input: 5V 2A/ 9V 1.67A Wireless output: 5W/ 9.9W	Ŵ
Xindao B.V.	

Remark:

1) The CE marking and WEEE symbol (if any) should be at least 5mm and 7mm respectively in height.

2) The markings and instructions are the minimum requirements required by safety standard. For final production samples, the additional markings which do not give rise to misunderstanding may be added.

3) As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or mark and the postal address will be marked on the products before being place on the market.

4) Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.



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

|--|

1.5	Components		Р
1.5.1	General		Р
	Comply with IEC 60950 or relevant component standard	Components which were found to affect safety aspects comply with the requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. (see appended table 1.5.1)	Ρ
1.5.2	Evaluation and testing of components	Components which are certified to IEC/EN and/or national standards are used correctly within their ratings. Components not covered by IEC/EN standards are tested under the conditions present in the equipment.	Ρ
1.5.3	Thermal controls	No any thermal controls.	Ν
1.5.4	Transformers	No transformers	Ν
1.5.5	Interconnecting cables		Ν
1.5.6	Capacitors bridging insulation	No such capacitor.	Ν
1.5.7	Resistors bridging insulation	No such components.	Ν
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		Ν
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		Ν
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable		Ν
1.5.8	Components in equipment for IT power systems		Ν
1.5.9	Surge suppressors	No such parts.	Ν
1.5.9.1	General		Ν
1.5.9.2	Protection of VDRs		Ν
1.5.9.3	Bridging of functional insulation by a VDR		Ν
1.5.9.4	Bridging of basic insul <mark>ation</mark> by a VDR		Ν
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		Ν

1.6	Power interface		Р
1.6.1	AC power distribution systems	No direct mains connection.	Ν

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
1.6.2	Input current	(See appended table 1.6.2)	Р	
1.6.3	Voltage limit of hand-held equipment		N	
1.6.4	Neutral conductor	Class III equipment, no neutral conductor.	N	

1.7	Marking and instructions		Р
1.7.1	Power rating	See below	Р
	Rated voltage(s) or voltage range(s) (V):	See marking plate	
	Symbol for nature of supply, for d.c. only:	See marking plate	
	Rated frequency or rated frequency range (Hz) .:		
	Rated current (mA or A):	See marking plate	
1.7.1.2	Identification markings		Р
	Manufacturer's name or trademark or identification mark	See marking plate	
	Type/model or type reference:	See marking plate	
	Symbol for Class II equipment only:		
	Other marking and symbols	See marking plate.	
1.7.1.3	Use of graphical symbols		Р
1.7.2	Safety instructions and marking	Provided.	Р
1.7.2.1	General	See below.	Р
1.7.2.2	Disconnect devices	No such devices	Ν
1.7.2.3	Overcurrent protective device		Ν
1.7.2.4	IT power distribution systems		Z
1.7.2.5	Operator acces <mark>s</mark> with a tool		Ν
1.7.2.6	Ozone		N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	Ν
1.7.4	Supply voltage adjustment	No such devices used	Ν
	Methods and means of adjustment; reference to installation instructions		Ν
1.7.5	Power outlets on the equipment		Ν
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):		Ν
1.7.7	Wiring terminals		Ν
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment, no protective earthing	Ν

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
1.7.7.2	Terminal for a.c. mains supply conductors		N
1.7.7.3	Terminals for d.c. mains supply conductors		Ν
1.7.8	Controls and indicators		Р
1.7.8.1	Identification, location and marking:	It is obviously unnecessary.	Ν
1.7.8.2	Colours:	The colours used for LED are indicating function. No safety consideration.	Р
1.7.8.3	Symbols according to IEC 60417:		Ν
1.7.8.4	Markings using figures:	Not applicable.	Ν
1.7.9	Isolation of multiple power sources:	No direct connection to mains supply	N
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices used	N
1.7.11	Durability	The marking withstands required tests.	Р
1.7.12	Removable parts	No such parts.	N
1.7.13	Replaceable batteries	No battery	Ν
	Language(s):		
1.7.14	Equipment for restricted access locations:		N
			1

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

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
2.1.1.7	Discharge of capacitors in equipment	No primary circuit.	Ν		
	Time-constant (s); measured voltage (V):				
2.1.1.8	Energy hazards – d.c. mains supply	Not directly connect to 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:	No any amplifiers	Ν		
2.1.2	Protection in service access areas		Ν		
2.1.3	Protection in restricted access locations		N		

SELV circuits		Р
General requirements	42.4V peak or 60VDC are not exceeded in SELV circuit under normal operation or single fault condition.	Р
Voltages under normal conditions (V)	Within SELV limits.	Р
Voltages under fault conditions (V)	Within SELV limits.	Р
Connection of SELV circuits to other circuits:		N
	General requirements         Voltages under normal conditions (V)	General requirements       42.4V peak or 60VDC are not exceeded in SELV circuit under normal operation or single fault condition.         Voltages under normal conditions (V)       Within SELV limits.         Voltages under fault conditions (V)       Within SELV limits.

2.3	TNV circuits	N
2.3.1	Limits No TNV circuits.	N
	Type of TNV circuits	N
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	N
2.3.4	Connection of TNV circuits to other circuits	N
	Insulation employed	N
2.3.5	Test for operating voltages generated externally	N

2.4	Limited curren <mark>t circ</mark> uits		Ν
2.4.1	General requirements	No limited current circuits to be evaluated.	Ν

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
2.4.2	Limit values		N		
	Frequency (Hz)		N		
	Measured current (mA):		N		
	Measured voltage (V):		N		
	Measured capacitance (nF or µF):		N		
2.4.3	Connection of limited current circuits to other circuits		N		

2.5	Limited power sources	Ν
	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	Ν
	Max. output voltage (V), max. output current (A), max. apparent power (VA):	
	Current rating of overcurrent protective device (A)	N
	Use of integrated circuit (IC) current limited	N

2.6	Provisions for earthing and bonding		N
2.6.1	Protective earthing	Class III equipment.	N
2.6.2	Functional earthing		N
	Use of symbol for 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 (mm <sup>2</sup> ), AWG	.:	N
2.6.3.3	Size of protective bonding conductors		N
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG	.:	N
2.6.3.4	Resistance of earthing conductors and their terminations, resistance( $\Omega$ ), voltage drop(V),test current (A), duration(min)	.:	N
2.6.3.5	Colour of insula <mark>tion</mark>	.:	N
2.6.4	Terminals		N

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	EN 60950-1	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict		
2.6.4.1	General		Ν		
2.6.4.2	Protective earthing and bonding terminals		Ν		
	Rated current (A), type and nominal thread diameter (mm):		N		
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		Ν		
2.6.5	Integrity of protective earthing		Ν		
2.6.5.1	Interconnection of equipment		Ν		
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N		
2.6.5.3	Disconnection of protective earth		Ν		
2.6.5.4	Parts that can be removed by an operator		Ν		
2.6.5.5	Parts removed during servicing		Ν		
2.6.5.6	Corrosion resistance		Ν		
2.6.5.7	Screws for protective bonding		Ν		
2.6.5.8	Reliance on telecommunication network or cable distribution system		N		

2.7	Overcurrent and earth fault protection in primary circuits		
2.7.1	Basic requirements Supplied by SEL	V N	
	Instructions when protection relies on building installation	N	
2.7.2	Faults not covered 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		Ν
2.8.1	General principles	No safety interlocks	Ν
2.8.2	Protection requirements		Ν
2.8.3	Inadvertent reactivation		Ν
2.8.4	Fail-safe operation		Ν
	Protection against extreme hazard		Ν
2.8.5	Moving parts		Ν
2.8.6	Overriding		Ν

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
2.8.7	Switches and relays		Ν		
2.8.7.1	Contact gaps (mm):		Ν		
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		Ν
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic materials are not used.	N
2.9.2	Humidity conditioning		N
	Humidity (%),temperature (°C):		N
2.9.3	Grade of insulation		N
2.9.4	Separation from hazardous voltages		N
	Method(s) used:		N

2.10	Clearances, creepage distances and distances	through insulation	Ν
2.10.1	General	Functional insulation only.	N
	Frequency		N
	Pollution degrees		N
	Reduced values for functional insulation		N
	Intervening unconnected conductive parts		N
	Insulation with varying dimensions		N
	Special separation requirements		N
	Insulation in circuits generating starting pulses		N
2.10.2	Determination of working voltage		N
2.10.3	Clearances		N
2.10.3.1	General		N
2.10.3.2	Mains transient voltages		N
	a)AC mains supply		N
	b)Earthed d.c. mains supplies		N
	c)Unearthed d.c. main supplies		N
	d)Battery operation		N
2.10.3.3	Clearances in primary circuits		N
2.10.3.4	Clearances in secondary circuits		N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
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 a.c. mains supply		N
	For d.c. mains supply:		N
	b)Transients from		N
2.10.4	Creepage distances		N
2.10.4.1	General		N
2.10.4.2	Material group and comparative tracking index		N
	CTI tests:		N
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	Insulation compound as solid insulation		N
2.10.5.4	Semiconductor device		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 or layers(pcs)		N
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

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Clause	Requirement – Test	Result – Remark	Verdict
	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		N
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
	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		Ν
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N
2.10.11	Test for semiconductor devices and cemented joints		N
2.10.12	Enclosed and sealed parts		N

3	WIRING, CONNECTIONS AND SUPPLY		Р
3.1	General		Р
3.1.1	Current rating and overcurrent protection	Adequate cross sectional areas on internal wiring. No internal wire for primary power distribution.	Р

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges that could damage the insulation and cause hazard.	Р		
3.1.3	Securing of internal wiring	Internal wiring is reliable secured	Р		
3.1.4	Insulation of conductors		Р		
3.1.5	Beads and ceramic insulators	No such insulators provided.	N		
3.1.6	Screws for electrical contact pressure	No electrical contact pressure by screwed connections.	N		
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	N		
3.1.8	Self-tapping and spaced thread screws	Thread-cutting or space thread screws are not used for electrical connections.	N		
3.1.9	Termination of conductors		Р		
	10 N pull test		Р		
3.1.10	Sleeving on wiring	No sleeving used to provide supplementary insulation	N		

3.2	Connection to a mains supply	N
3.2.1	Means of connection Class III ed	quipment 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 (mm) of cable and conduits	
3.2.4	Appliance inlets	N
3.2.5	Power supply cords	N
3.2.5.1	AC power supply cords	N
	Туре:	
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), 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
	D (mm); test mass (g):	

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
	Radius of curvature of cord (mm)		
3.2.9	Supply wiring space		Ν

3.3	Wiring terminals for connection of external conductors	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 (mm <sup>2</sup> ):	
3.3.5	Wiring terminal sizes	N
	Rated current (A), type and nominal thread diameter (mm)	
3.3.6	Wiring terminals 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	Single-phase equipment and d.c. equipment	N
3.4.7	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 only.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnections.	N
3.5.4	Data ports for additional equipment		N

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

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

4.2	Mechanical strength		Р
4.2.1	General	See below	Р
	Rack-mounted equipment.		Ν
4.2.2	Steady force test, 10 N		Ν
4.2.3	Steady force test, 30 N		Ν
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	Р
4.2.5	Impact test		Ν
	Fall test		Ν
	Swing test		Ν
4.2.6	Drop test; height(m)	1m; No damage of the enclosure, no energy hazards or damage to enclosure integration after the test.	Ρ
4.2.7	Stress relief test	86°C	Р
4.2.8	Cathode ray tubes	No cathode ray tube.	Ν
	Picture tube separately certified		Ν
4.2.9	High pressure lamps	No high pressure lamp	Ν
4.2.10	Wall or ceiling mounted equipment; force (N)		Ν

4.3	Design and construction		Р
4.3.1	Edges and corners	Edges and corners are rounded.	Р
4.3.2	Handles and manual controls; force (N)		Ν
4.3.3	Adjustable controls	No such adjustable control.	Ν
4.3.4	Securing of parts		Ν
4.3.5	Connection of plugs a <mark>nd s</mark> ockets		Ν
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	Ν
	Torque:		Ν
	Compliance with the relevant mains plug standard		Ν
	· · · · · · · · · · · · · · · · · · ·		
4.3.7	Heating elements in earthed equipment	No heating elements.	Ν

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	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
4.3.8	Batteries		Ν	
	-Overcharging of a rechargeable battery		Ν	
	-Unintentional charging of a non-rechargeable battery		N	
	-Reverse charging of a rechargeable battery		Ν	
	-Excessive discharging rate for any battery		Ν	
4.3.9	Oil and grease	No oil and grease.	Ν	
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 containers for liquids or gases	N	
4.3.12	Flammable liquids:	The equipment does not contain flammable liquid.	N	
	Quantity of liquid (I)		Ν	
	Flash point (°C)		Ν	
4.3.13	Radiation; type of radiation		Р	
4.3.13.1	General		Р	
4.3.13.2	Ionizing radiation	No ionizing radiation	Ν	
	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	Ν	
	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	LEDs for indicator only	Р	
4.3.13.5.1	Lasers (including laser diodes)		Ν	
	Laser class			
4.3.13.5.2	Light emitting diodes (LEDs)		Р	
4.3.13.6	Other types:		N	

4.4	Protection against haza	dous moving parts		N
4.4.1	General		No hazardous moving parts.	N
4.4.2	Protection in operator acc	cess areas		N
	Household and home/offi shredders	ce document/media		N
4.4.3	Protection in restricted ac	cess locations		N

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	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
4.4.4	Protection in service access areas		Ν	
4.4.5	Protection against moving fan blades		Ν	
4.4.5.1	General		Ν	
	Not considered to cause pain or injury. a):		Ν	
	Is considered to cause pain, not injury. b):		Ν	
	Considered to cause injury. c):		Ν	
4.4.5.2	Protection for users		Ν	
	Use of symbol or warning:		Ν	
4.4.5.3	Protection for service persons		Ν	
	Use of symbol or warning:		Ν	

4.5	Thermal requirements		Р
4.5.1	General		Р
4.5.2	Temperature tests	(see appended table 4.5)	Р
	Normal load condition per Annex L		
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat	No thermoplastic parts on which parts at hazardous voltage are directly mounted.	N

4.6	Openings in enclosures	N
4.6.1	Top and side openings	No opening N
	Dimensions (mm)	
4.6.2	Bottoms of fire enclosures	N
	Construction of the bottom:	
4.6.3	Doors or covers in fire enclosures	N
4.6.4	Openings in transportable equipment	N
4.6.4.1	Constructional design measures	N
	Dimensions(mm)	N
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):	

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
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		Ν
4.7.2	Conditions for a fire enclosure	See appended table 1.5.1	Р
4.7.2.1	Parts requiring a fire enclosure		Ν
4.7.2.2	Parts not requiring a fire enclosure	Supplied by approved AC adapter with USB connection, that comply with LPS	Р
4.7.3	Materials	•	Р
4.7.3.1	General	PCB rated V-1	Р
4.7.3.2	Materials for fire enclosures		Ν
4.7.3.3	Materials for components and other parts outside fire enclosures	See appended table 1.5.1	Р
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	Ν
4.7.3.6	Materials used in high-voltage components	No high voltage components.	Ν

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current	N
5.1.1	General	N
5.1.2	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. mains supply	N
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
	Test voltage (V)	N
	Measured touch current (mA):	N
	Max. allowed touch current (mA)	N

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Clause	Requirement – Test	Result – Remark	Verdict	
	Measured protective conductor current (mA):		Ν	
	Max. allowed protective conductor current (mA) :		Ν	
5.1.7	Equipment with touch current exceeding 3.5 mA :		Ν	
5.1.7.1	General:		Ν	
5.1.7.2	Simultaneous multiple connections to the supply		Ν	
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks		N	
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system		N	
	Test voltage (V):		Ν	
	Measured touch current (mA):		Ν	
	Max. allowed touch current (mA)		Ν	
5.1.8.2	Summation of touch currents from telecommunication networks		N	
	a)EUT with earthed telecommunication ports :		N	
	b)EUT whose telecommunication ports have no reference to protective earth		Ν	

5.2	Electric strength		N
5.2.1	General	Class III equipment	Ν
5.2.2	Test procedure		Ν

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 used	Ν
5.3.3	Transformers	No transformers	Ν
5.3.4	Functional insulation	See appended table 5.3. Complies with c)	Р
5.3.5	Electromechanical components		Ν
5.3.6	Audio amplifiers in ITE		Ν
5.3.7	Simulation of faults	Result see appended table 5.3.	Р
5.3.8	Unattended equipment		Ν
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	Ρ

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Clause	Requirement – Test	Result – Remark	Verdict
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 NETWORKS	N
6.1	Protection of telecommunication network service persons, and users of ot equipment connected to the network, from hazards in the equipment	her N
6.1.1	Protection from hazardous voltages	Ν
6.1.2	Separation of the telecommunication network from earth	Ν
6.1.2.1	Requirements	Ν
	Test 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	Ν
6.2.1	Separation requirements	Ν
6.2.2	Electric strength test procedure	Ν
6.2.2.1	Impulse test	Ν
6.2.2.2	Steady-state test No insulation breakdown	Ν
6.2.2.3	Compliance criteria Compliance	Ν

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

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS	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. <b>3</b>	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

	EN 60950-1	
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)	Ν
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)	Ν
A.2.1	Samples, material	
	Wall thickness (mm)	
A.2.2	Conditioning of samples	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 60695-2-2, cl. 4 and 8	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

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Clause	Requirement – Test	Result – Remark	Verdict
A.3.2	Test procedure		Ν
A.3.3	Compliance criterion		Ν

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	
	Туре	
	Rated values	
B.2	Test conditions	Ν
B.3	Maximum temperatures	Ν
B.4	Running overload test	Ν
B.5	Locked-rotor overload test	Ν
	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	Ν
B.6.2	Test procedure	N
B.6.3	Alternative test procedure	Ν
B.6.4	Electric strength test; test voltage (V)	Ν
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	Ν
B.7.1	Test procedure	Ν
B.7.2	Alternative test procedure; test time (h)	Ν
B.7.3	Electric strength test	Ν
B.8	Test for motors with capacitors	Ν
B.9	Test for three-phase motors	Ν
B.10	Test for series motors	Ν
	Operating voltage (V)	

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)	N
	Position No transformers	
	Manufacturer	
	Туре	

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Clause	Requirement – Test	Result – Remark	Verdict
	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	DUCH-CURRENT TESTS (see 5.1.4)	N
D.1	Measuring instrument		Ν
D.2	Alternative measuring instrument		Ν

E ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13) N
---

F	ANNEX F, MEASUREMENT OF CLEARANCES AN	<b>CREE</b>	PAGE DISTANCES	N
	(see 2.10)			

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

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
	b) Transients from a telecommunication network		Ν
G.6	Determination of minimum clearances:		Ν

J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	
	Metal used	

Κ	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)	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 TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)	Р
L.1	Typewriters	Ν
L.2	Adding machines and cash registers	Ν
L.3	Erasers	Ν
L.4	Pencil sharpeners	Ν
L.5	Duplicators and copy machines	Ν
L.6	Motor-operated files	Ν
L.7	Other business equipment	Р

М	ANNEX M, CRITERIA FOR TELEPHONE RINGING 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)	

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Clause	Requirement – Test	Result – Remark	Verdict	
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 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)		Ν
N.1	ITU-T impulse test generators		Ν
N.2	IEC 60065 impulse test generator		Ν

P ANNEX P, NORMATIVE REFERENCES P

Q	ANNEX Q, Voltage dependent resistors (VDRS) (see 1.5.9.1)	N
	-Preferred climatic categories	N
	-Maximum continuous voltage	N
	-Combination pulse current	N
	Body of the VDR Test according to IEC 60695- 11-5	N
	Body of the VDR. Flammability class of material (min V-1)	N

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	N
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)	Ν
R.2	Reduced clearances (see 2.10.3)	Ν

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)			
S.1	Test equipment		Ν	
S.2	Test procedure		Ν	
S.3	Examples of waveform	<mark>s du</mark> ring impulse testing	Ν	

Т	ANNEX T, GUIDA	ANCE ON PROTECTION AGAINST INGRESS OF WATER	N
	(see 1.1.2)		

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Clause	Clause Requirement – Test Result – Remark Verdi				
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)				

V	ANNEX V, AC POWER DISTRIBUTION SYSTEM	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)			
V.1	Introduction				
V.2	TN power distribution systems		Ν		

w	ANNEX W, SUMMATION OF TOUCH CURRENTS			
W.1	Touch current from electronic circuits			
W.1.2	Earthed circuits			
W.2	Interconnection of several equipments			
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 TRANSFORMER TESTS (see clause C.1)	Ν
X.1	Determination of maximum input current	Ν
X.2	Overload test procedure	N

Y	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

AA	ANNEX AA, MAN	DREI	TEST (	se <mark>e</mark> 2	.10.5.8)	Ν

BB ANNEX BB, CHANGES IN THE SECOND EDITION	
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CC	ANNEX CC, Evaluation of integrated circuit (IC) circuit limiters	Ν
CC.1	General	Ν
CC.2	Test program 1	Ν

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Clause	Requirement – Test	Result – Remark	Verdict			
CC.3	Test program 2		Ν			
CC.4	Test program 3		N			
CC.5	Compliance		N			

DD	ANNEX DD, requirements for the mounting means of rack-mounted equipment	
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	N
EE.1	General	N
EE.2	Marking and instructions	N
	Use of markings or symbols	N
	Information of user instructions, maintenance and/or servicing instructions	N
EE.3	Compliance	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	Poquiror	ont Test		EN 60950-1	Dee	ult – Remark	Verdict
		nent – Test	4 0040/440 0	044/40.0040			
EN						MMON MODIFICAT	IONS
-		Subclauses, no )-1 and it's ame		d figures which a prefixed "Z"	are additional to	o those in	
	Add the fo	ollowing annexe	es:				Р
A2:2013)		Č C	orresponding	erences to intern European public		tions with their	
		( )	Special natior				
-				ELEC code desi	<u> </u>		
General		the —countryll to the following		eference docum	ent (IEC 60950	)-1:2005)	Р
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	
	2.2.3	Note	2.2.4	Note	2.3.2	Note	
	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	
	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	
	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	
	4.7.3.1	Note 2	5.1.7.1	Note 3 & 4	5.3.7	Note 1	
	6	Note 2 & 5	6.1.2.1	Note 2	6.1.2.2	Note	
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	
	G.2.1	Not <mark>e</mark> 2	Annex H	Note 2	·		
General A1:2010)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A1:2010) according to the following list:					Р	
	1.5.7.1	Note		6.1.2.1	Note 2		
	6.2.2.1	Note 2		EE.3	Note		
				ference documer	nt (IEC 60950-	1:2005/A2:2013)	Р
A2:2013)	2.7.1	to the following Note *	g list:	2.10.3.1	Note 2		
	6.2.2.	Note					
				Modification remain	ains unchange	d.	
1.1.1 \\.1.2010\	Replace the text of NOTE 3 by the following.						
(A1:2010)	NOTE 3 The requirements of EN 60065 may also be used to meet safety requirements for multimedia equipment. See IEC Guide 112, Guide on the safety of multimedia equipment. For						
	television sets EN 60065 applies.						

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.		Ν		
(A12:2011)					
1.5.1 (Added info*)	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.				
1.7.2.1 (A1:2010)	New Directive 2011/65/11 * 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.		Ν		
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.		Ν		
	Zx Protection against excessive sound pressure from person	nal music players			
	<ul> <li>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: <ul> <li>is designed to allow the user to listen to recorded or broadcast sound or video; and</li> <li>primarily uses headphones or earphones that can be worn in or on or around the ears;</li> <li>allows the user to walk around while in use.</li> </ul></li></ul>		Ν		

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	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.		Ν
	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.		
	<ul> <li>The requirements do not apply:</li> <li>while the personal music player is connected to an external amplifier; or</li> <li>while the headphones or earphones are not used.</li> <li>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.</li> </ul>		
	<ul> <li>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.</li> <li>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.</li> <li>For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.</li> </ul>		
	<ul> <li>Zx.2 Equipment requirements No safety provision is required for equipment that complies with the following: <ul> <li>equipment provided as a package (personal music player with its listening device), where the acoustic output LAeq,T is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and <ul> <li>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. </li> <li>NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level LAeq,T is meant. See also Zx.5 and Annex Zx.</li> </ul></li></ul></li></ul>		Ν

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EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict		
	<ul> <li>All other equipment shall:</li> <li>a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and</li> <li>b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and</li> <li>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</li> <li>NOTE 2 Examples of means include visual or audible signals. Action from the user is always required.</li> <li>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.</li> <li>d) have a warning as specified in Zx.3; and</li> <li>e) not exceed the following:     <ul> <li>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</li> <li>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 50332-1.</li> </ul> </li> </ul>		Ν		
	<ul> <li>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.</li> <li>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.</li> <li>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.</li> </ul>				

Clause	ause Requirement – Test Result – Remark					
	Zx.3 Warning		Verdict			
	The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following:		N			
	<ul> <li>the symbol of Figure 1 with a minimum height of 5 mm; and</li> <li>the following wording, or similar:</li> </ul>					
	"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 e	arphones)	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).					
	NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.					
	Zx.4.2 Wired listening devices with digital input With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.		N			
	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.					
	USB headphone.					

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	<ul> <li>Zx.4.3 Wireless listening devices In wireless mode: <ul> <li>with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and </li> <li>respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and <ul> <li>with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the abovementioned programme simulation noise, the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.</li> </ul></li></ul></li></ul>		Ν
	NOTE An example of a wireless listening device is a Bluetooth headphone.		
	<b>Zx.5 Measurement methods</b> 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.		Ν
	NOTE Test method for wireless equipment provided without listening device should be defined.		
2.7.1	<ul> <li>Replace the subclause as follows:</li> <li>Basic requirements</li> <li>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):</li> <li>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;</li> </ul>		Ν
	<ul> <li>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;</li> <li>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.</li> <li>If reliance is placed on protection in the building installation 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.</li> </ul>		Ν
2.7.2	This subclause has been declared 'void'.		Ν
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N

EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict		
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2".				
	In Table 3B, replace the first four lines by the following:				
	Up to and including 6   0,75 <sup>a)</sup>				
	Over 6 up to and including 10 $(0,75)^{b}$ 1,0		N		
	Over 10 up to and including 16  (1,0) <sup>c)</sup> 1,5				
	In the conditions applicable to Table 3B delete the words "in some countries" in condition <sup>a)</sup> .				
	In NOTE 1, applicable to Table 3B, delete the second sentence.				
3.2.5.1 (A2:2013)	NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD		N		
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:		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 (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		N		
	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:				
	At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 $\mu$ Sv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.		N		
	Replace the notes as follows:				
	NOTE These values appear in Directive 96/29/Euratom.				
	Delete NOTE 2.				
Bibliography	Additional EN standards.				

ZA NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS

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

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	EN 60950-1							
Clause	Requirement – Test	Result – Remark	Verdict					
	ZB ANNEX (normative) SPECIAL NATIONAL CONE	DITIONS (EN)						
1.2.4.1	In <b>Denmark</b> , 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 <b>Norway</b> and <b>Sweden</b> , for requirements see 1.7.2.1 and 7.3 of this annex.		Ν					
1.5.7.1	In <b>Finland, Norway</b> and <b>Sweden</b> , resisters 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 resister is used, the resister must withstand the resister test in 1.5.7.2.		N					
1.5.8	In <b>Norway</b> , 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 <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		N					
1.7.2.1	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , 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"		Ν					
1.7.2.1 (A11:2009)	In Sweden: "Apparaten skall anslutas till jordat uttag" In <b>Norway</b> and <b>Sweden</b> , 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:		N					

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	EN 60950-1							
Clause	Requirement – Test	Result – Remark	Verdict					
	ZB ANNEX (normative) SPECIAL NATIONAL CONE	DITIONS (EN)						
	<ul> <li>"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)." 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.</li> <li>Translation to Norwegian (the Swedish text will also be accepted in Norway):</li> <li>"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 og kabel-TV nettet."</li> <li>Translation to Swedish:</li> <li>"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 nätet."</li> </ul>		N					
1.7.2.1 (A2:2013)	In <b>Denmark</b> , 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 <b>Denmark</b> shall be as follows: In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."		N					
1.7.5	In <b>Denmark</b> , socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a. For <b>CLASS II EQUIPMENT</b> the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.		N					

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	L
1.7.5 (A2:2013)	In <b>Denmark</b> , socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2- D1:2011. For class I equipment the following Standard Sheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exception for STATIONARY EQUIPMENT where the socket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a. Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with by DS 60884- 2-D1 Standard Sheet DKA 1-3a or DKA 1-3b. Justification the Heavy Current Regulations, 6c		N
2.2.4	In <b>Norway</b> , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N
2.3.2	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> 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 <b>Norway</b> , 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 <b>United Kingdom</b> , the current rating of the circuit shall be taken as 13 A, not 16 A.		N
2.7.1	In the <b>United Kingdom</b> , 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 <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.		N

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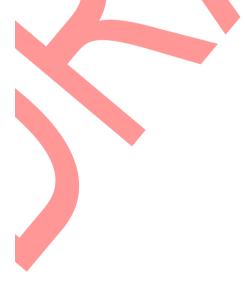
Clause	Requirement – Test	Result – Remark	Verdict					
	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)							
3.2.1.1	In <b>Switzerland</b> , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A 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 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A		Ν					
3.2.1.1	In <b>Denmark</b> , 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. 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.		N					
	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	<ul> <li>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.</li> <li>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.</li> <li>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.</li> <li>If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.</li> </ul>		N					

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Clause	Requirement – Test	Result – Remark	Verdict
0.0000	ZB ANNEX (normative) SPECIAL NATIONAL CONE		
3.2.1.1	In the <b>United Kingdom</b> , 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.		N
3.2.1.1	In <b>Ireland</b> , 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 <b>Switzerland</b> , for requirements see 3.2.1.1 of this annex.		N
3.2.5.1	In the <b>United Kingdom</b> , 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 <b>United Kingdom</b> , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is:		N
4.3.6	<ul> <li>1,25 mm<sup>2</sup> to 1,5 mm<sup>2</sup> nominal cross-sectional area.</li> <li>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.</li> </ul>		N
4.3.6	In <b>Ireland</b> , 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

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	EN 60950-1							
Clause	Requirement – Test	Result – Remark	Verdict					
	ZB ANNEX (normative) SPECIAL NATIONAL CONE	DITIONS (EN)						
5.1.7.1	<ul> <li>In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment:</li> <li>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</li> </ul>		Ν					
	<ul> <li>EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON;</li> <li>STATIONARY PLUGGABLE EQUIPMENT TYPE B;</li> <li>STATIONARY PERMANENTLY CONNECTED EQUIPMENT.</li> </ul>							
6.1.2.1 (A1:2010)	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , add the following text between the first and second paragraph of the compliance clause: 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		Ν					



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Clause	Requirement – Test	Result – Remark	Verdict
Clause			veruici
	ZB ANNEX (normative) SPECIAL NATIONAL CONE		
	- 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		N
	- 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).		
	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.		
3.1.2.2	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , 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 <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , 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.		N
7.3	In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.		N
7.3	In <b>Norway</b> , for installation conditions see EN 60728-11:2005.		N

1.5.1	TABLE: list of critical components		Р		
Object/part no	. Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
PCB	Interchangeable	Interchangeabl e	V-1, 130°C	UL94, UL796	UL ZPMV2
Coil	Interchangeable	Interchangeabl e	130°C	UL1446	UL OBMW2
Enclosure	SABIC INNOVATIVE PLASTICS B V	101(f2)	Min.0.7mm, HB, 115°C	UL94	UL E45329
Note(s):					

1.6.2	TABLE: electrical data (in normal conditions)							
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status		
5	1.76	2	8.8			Maximum normal load: 5W		
9	1.34	1.67	12.06			Maximum normal load: 9.9W		
Note(s):	•			•				

2.1.1.5c)1)	TABLE: m	nax. V, A, VA test							Ν
Voltage (rated) (V)		Current (rated) (A)	Volta	ge (max.) ('	V)	Curr (A)	ent (max.)	VA (	max.) (VA)
Note(s):									

2.1.1.5c)2)	TABLE: stored energy			Ν
Capacitance C (μF)		Voltage U (V)	Energ	gy E (J)
Note(s):				

2.2	TABLE: evaluation of voltage limiting components in SELV circuits       N						
Component (macaured between)			max. voltage (V)	max. voltage (V) (normal operation)			
Component (measured between)				Vpeak	Vd.c.	C	omponents
Fault test pe	erformed on voltage limiti	ng c	omponents	Voltage measured	d (V) in SELV circuits	s (V pe	eak or V d.c.)
Note(s):							

2.5	TABLE: limited power source measurement	N
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Measured Uoc (V) with all load circuits	lsc (A	4)	VA		
disconnected:	Meas.	Limit	Meas.	Limit	
Note(s):					

2.10.2	TABLE: Working voltage measurement				
Location		RMS voltage (V)	Peak voltage (V)	Comr	nents
				-	-
Note(s):					

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements						
Clearance cl and creepage distance dcr at/of:		U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)
Note(s):							

2.10.5 TABLE: distance through insulation measurements					
Distance through insulation di at/of: U r.m.s. Test voltage Required di (V) (V) (mm)					di (mm)
Note(s):					

4.3.8	TABLE: Batte	eries							Ν
The tests of 4.3.8 are applicable only when appropriate battery data is not available								Ν	
Is it possible t	Is it possible to install the battery in a reverse polarity position?							Ν	
	Non-red	chargeable	batteries		F	Rechargeab	le batteries	3	
	Disch	argi <mark>ng</mark>	Uninten-	Cha	rging	Discha	arging Reve		se Charging
	Meas. Current	Manuf. Specs.	tional charging	Meas. Current	Manuf. Specs.	Meas. Current	Manuf.S pecs.	Meas. Curren	Manuf. t Specs.
Max. current during norma condition									
Max. current during fault condition		-							
Test results:							Verdict		
- Chemical le	aks								Ν

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- Explosion of the battery	 Ν
- Emission of flame or expulsion of molten metal	 Ν
- Electric strength tests of equipment after completion of tests	 Ν
Note(s):	

4.3.8	TABLE: Batteries		Ν
Battery cate	gory:		
Manufacture	r:		
Type/model.			
Voltage, Cap	acity:		
Circuit protect	ction diagram:		
MARKINGS	AND INSTRUCTIONS (1.7.13)		
Location of r	eplaceable battery		
Language(s)			
Close to the	battery	-	
In the servici	ng instructions	-	
In the operat	ing instructions		
Note(s):			

4.5	4.5 TABLE: maximum temperatures						
	Test voltage (V)	:	a) DC9V;	b)			
movimum t	emperature T of part/at:			T (°	C)		allowed Tmax
maximum u	emperature T of part/at:		a)			b)	(°C)
PCB near l	J3		103.	9			130
Coil			84.	5			130
Internal enclosure near PCB			75.7				115
Internal end	closure near coil		69.0				115
External en	closure near PCB		73.3			95	
External en	closure near coli		65.2			95	
Ambient			40.0	C			
Temper	ature T of winding t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	$R_2(\Omega)$	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation Class
Note : Having a specified maximum ambient temperature of 40°C							

4.5.5 TABLE: ball pressure test of thermoplastic parts

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	allowed impression diameter (mm)			
Part		Test temperature(°C)		ion diameter mm)
Note(s):				

4.7	TABLE: Resistance to fire						
Part		Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence	
Note(s):							

5.1	TABLE: touch current measurement				N
Measured between:		Measured(mA)	Limit(mA)	Comments/conditions	
Note(s):					

5.2	TABLE: electric strength tests and impulse tests										
Test voltage	applied between:		Test voltage (V)	Breakdown							
			I								
Note(s):											

1		_								
TABLE: fault condition tests							Р			
aml	bient temperature (	23.2-24.7								
rated markings of power supply:										
no.	Fault	vol	Test tage (V)	Test time	Fuse no.	Result				
	Pin 3-2, S-C		9	10min		No damage and hazards.				
	S-C		9	10min		No damage and hazards.				
	Pin 4-6, S-C		9	10min		No damage and hazards.				
	Pin 4-6, S-C		9	10min		No damage and hazards.				
Fault: S-C = short circuit, O-C = open circuit O-L= overload										
Note:										
	aml rate	ambient temperature (         rated markings of power         no.       Fault         Pin 3-2, S-C         S-C         Pin 4-6, S-C         Pin 4-6, S-C	ambient temperature (°C) .         rated markings of power su         no.       Fault       vol         Pin 3-2, S-C         S-C         Pin 4-6, S-C         Pin 4-6, S-C	ambient temperature (°C)rated markings of power supplyno.FaultTest voltage (V)Pin 3-2, S-C9S-C9Pin 4-6, S-C9Pin 4-6, S-C9	ambient temperature (°C)rated markings of power supplyno.FaultTest voltage (V)Test timePin 3-2, S-C910minS-C910minPin 4-6, S-C910minPin 4-6, S-C910min	ambient temperature (°C)rated markings of power supplyno.FaultTest voltage (V)Test timeFuse no.Pin 3-2, S-C910minS-C910minPin 4-6, S-C910minPin 4-6, S-C910minPin 4-6, S-C910min	ambient temperature (°C):23.2-24.7rated markings of power supply:23.2-24.7no.FaultTest voltage (V)Test timeFuse no.Resultno.FaultTest voltage (V)Test timeFuse no.Resultno.FaultTest voltage (V)Test timeFuse no.ResultNo damage and hazards.No damage and hazards.S-C910minNo damage and hazards.Pin 4-6, S-C910minNo damage and hazards.Pin 4-6, S-C910minNo damage and hazards.			



Attachment A

Fig.1 – overall view

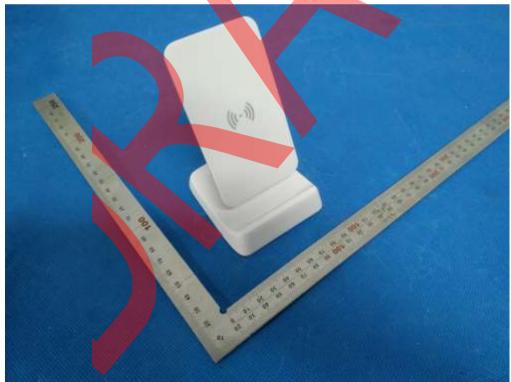


Fig.2 –overall view

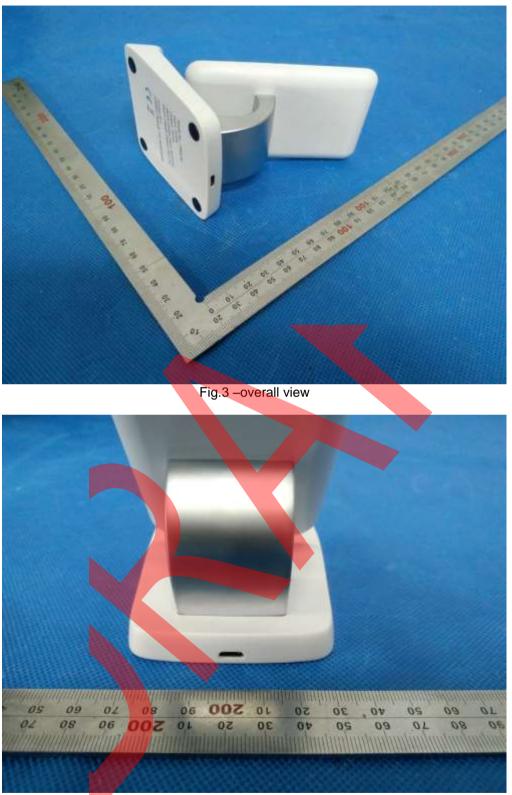


Fig.4 –overall view



Fig.5 -part view



Fig.6 –part view

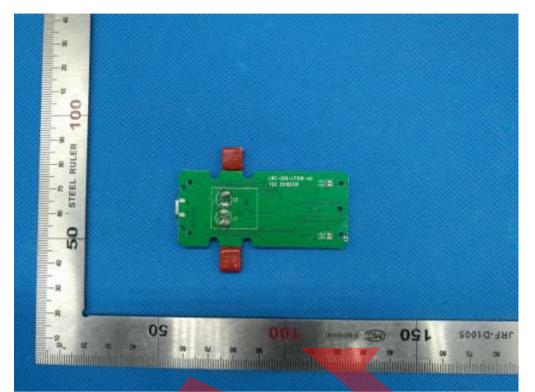


Fig.7 -part view

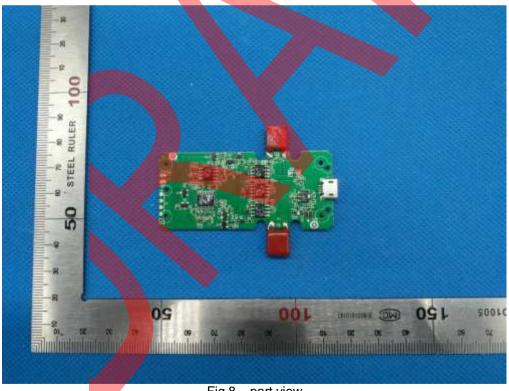


Fig.8 – part view

