

# TEST REPORT

Report No.: \$19090402201001

Product: INOI 2 Lite 2019 4Gb

Model No.: INOI 2 Lite 2019 4Gb

**Applicant:** INOI Limited

Office 302, Dominion Centre 43 - 59 Queen's road East

Address: Wanchai, Hong Kong

Issued by: Shenzhen NTEK Testing Technology Co., Ltd.

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Location: China

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## TEST REPORT

## IEC/EN 60950-1

# Information technology equipment – Safety – Part 1: General requirements

Report Number:	S19090402201001
Tested by (name + signature):	Keny Fu Ceny Fu  Helen Lin  Jebulin
Approved by (name + signature) :	Helen Lin Schulin
Date of issue:	2019-11-11
Testing Laboratory:	Shenzhen NTEK Testing Technology Co., Ltd.
Address:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China
Applicant's name:	INOI Limited
Address::	Office 302, Dominion Centre 43 - 59 Queen's road East Wanchai, Hong Kong
Manufacturer's name	INOI Limited
Address::	Office 302, Dominion Centre 43 - 59 Queen`s road East Wanchai, Hong Kong
Test specification:	* * * * * * * * *
Standard:	☐ IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 ☐ EN 60950-1:2006 + A11:2009 + A1:2010+A12:2011+A2:2013
Test procedure:	CE procedure
Non-standard test method	N/A
Test Report Form No	IECEN60950_1F
Test Report Form(s) Originator:	
Master TRF::	Dated 2014-02
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Test item description:	INOI 2 Lite 2019 4Gb
Trade Mark:	N/A
Model/Type reference:	INOI 2 Lite 2019 4Gb
Ratings::	Input: DC 5V, 1000mA



Test item particulars:	* * * * * * *		
Equipment mobility:	[] movable [X] hand-held [] transportable [] stationary [] for building-in [] direct plug-in		
Connection to the mains:	[] pluggable equipment [] type A [] type B [] permanent connection [] detachable power supply cord [] non-detachable power supply cord [X] not directly connected to the mains		
Operating condition	[X] continuous [] rated operating / resting time:		
Access location:	[X] operator accessible [] restricted access location		
Over voltage category (OVC)	[] OVC I		
Mains supply tolerance (%) or absolute mains supply values:	N/A		
Tested for IT power systems			
IT testing, phase-phase voltage (V)	N/A		
Class of equipment:	[] Class I [] Class II [X] Class III [] Not classified		
Considered current rating of protective device as part of the building installation (A)	N/A		
Pollution degree (PD)			
IP protection class:	IPX0		
Altitude during operation (m)			
Altitude of test laboratory (m)	<500m		
Mass of equipment (kg)	0.169kg		
Possible test case verdicts:			
- test case does not apply to the test object:	N(/A)		
- test object does meet the requirement:			
- test object does not meet the requirement:			
Testing	* * * * * *		
Date of receipt of test item:	2019-11-04		
Date (s) of performance of tests:			
General remarks:			
The test results presented in this report relate only to the This report shall not be reproduced, except in full, with a laboratory.  "(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to the	out the written approval of the Issuing testing opended to the report.		
Throughout this report a 🔲 comma / 🗵 point is use	ed as the decimal separator.		



#### General product information:

Brief description of the test sample:

-The equipment is an INOI 2 Lite 2019 4Gb which can be charged by 5Vdc of external adapter, and powered by 3.7V Li-ion battery, therefore, its circuits are considered as SELV of class III equipment.

-The testing operating ambient temperature to testing sample is considered as 40°C.

#### Abbreviations used in the report:

Normal conditions
 functional insulation
 double insulation
 between parts of opposite polarity
 N.C.
 single fault conditions
 basic insulation
 supplementary insulation
 reinforced insulation
 RI

Indicate used abbreviations (if any):

#### Copy of marking plate:

INOI 2 Lite 2019 4Gb
Input: 5V ---, 1000mA

Manufature: INOI Limited

Add.: Office 302, Dominion Centre 43 - 59 Queen's road East Wanchai, Hong Kong

Importer: XXX

Add: XXX Made in China

#### Remark:

-The CE marking and WEEE symbol (if any) should be at least 5.0 mm and 7.0 mm respectively in height.



1	4 4 .	~ .	IEC/EI	V 60950-				-
Clause	Requirment + Test	10	10	10	Resu	ılt + Remar	k 4	Verdict
W 2	GENERAL	7	2	5	2 5	* 5	<del>اله اله اله اله اله اله اله اله اله اله </del>	P

1.5	Components		P
1.5.1	General		Р
4 5	Comply with IEC 60950-1 or relevant component standard	(see appended tables 1.5.1)	P
1.5.2	Evaluation and testing of components	Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this standard.	STIP STIP
at si		Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component standard.	A CIT
it to		Components, for which no relevant IEC-standard exists, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.	S. Ch
1.5.3	Thermal controls	No thermal controls	N
1.5.4	Transformers	No such transformer in the EUT	N
1.5.5	Interconnecting cables	2 2 2 2	N
1.5.6	Capacitors bridging insulation	No such capacitor	N
1.5.7	Resistors bridging insulation	A 40 40 40	N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	Functional insulation only	N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	4 4 4	N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	A 310 310 310	N
1.5.8	Components in equipment for IT power systems	No connection to the AC mains supply.	N
1.5.9	Surge suppressors	No surge suppressors	N
1.5.9.1	General	* * * *	N
1.5.9.2	Protection of VDRs	1 21 21 21	N
1.5.9.3	Bridging of functional insulation by a VDR	A A A A	N
1.5.9.4	Bridging of basic insulation by a VDR		N



7	IEC/EN 60950-1		-
Clause	Requirment + Test	Result + Remark	Verdic
2	4 4 4 4 4 4	4 4 4	2
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	<b>*</b>	N
4	4 4 4 4 4 4	4 4 4	-
1.6	Power interface	* * * * *	P
1.6.1	AC power distribution systems	71, 71, 71,	N
1.6.2	Input current	(See appendix table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment		P
1.6.4	Neutral conductor	Class III equipment	N
O 4	Modeling and instructions		D
1.7	Marking and instructions	2 2 2	P
1.7.1	Power rating and identification markings	t & & &	P
1.7.1.1	Power rating marking	71, 71, 71,	P
+	Multiple mains supply connections	t * * * *	N
0 20	Rated voltage(s) or voltage range(s) (V):	5.0V	P
4	Symbol for nature of supply, for d.c. only:		P
OF 19	Rated frequency or rated frequency range (Hz):		N
- 2"	Rated current (mA or A):	1000mA	P
1.7.1.2	Identification markings	+ + + +	P
4	Manufacturer's name or trade-mark or identification mark:	(See marking plate)	P
0 0	Model identification or type reference:	(See marking plate)	P
3	Symbol for Class II equipment only:	Class III equipment	N
d 30	Other markings and symbols:	Additional symbols or marking does not give rise to misunderstanding.	P
1.7.1.3	Use of graphical symbols	* * * *	N
1.7.2	Safety instructions and marking	Operating Instructions provided	Р
1.7.2.1	General	* 0 0 0	Р
1.7.2.2	Disconnect devices	No connection to the mains supply	N
1.7.2.3	Overcurrent protective device	Not such equipments	N
1.7.2.4	IT power distribution systems	7 7 7	N
1.7.2.5	Operator access with a tool	* 0 0 0	N
1.7.2.6	Ozone	21 21 21	N
1.7.3	Short duty cycles	Continuous operation	N
1.7.4	Supply voltage adjustment:	No supply voltage adjustment	N



Battery compartments

2.1.1.2

IEC/EN 60950-1				
Clause	Requirment + Test	Result + Remark	Verdic	
d .	Methods and means of adjustment; reference to installation instructions	t .d .d .d.	N-	
1.7.5	Power outlets on the equipment:	No standard power outlets.	N	
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)		N	
1.7.7	Wiring terminals	4 4 4	N	
1.7.7.1	Protective earthing and bonding terminals		N	
1.7.7.2	Terminals for a.c. mains supply conductors	7 7 7 4	N	
1.7.7.3	Terminals for d.c. mains supply conductors	* * * *	N	
1.7.8	Controls and indicators	ZIV ZIV ZIV .	P	
1.7.8.1	Identification, location and marking	L 1 1 1	N	
1.7.8.2	Colours		P	
1.7.8.3	Symbols according to IEC 60417	5 5 5	N	
1.7.8.4	Markings using figures		N	
1.7.9	Isolation of multiple power sources	2 2 2 .	N	
1.7.10	Thermostats and other regulating devices	Not used.	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.	P	
1.7.12	Removable parts	* * * *	P	
1.7.13	Replaceable batteries	Statement in instruction	P	
1	Language(s)	English or logal language	_	
1.7.14	Equipment for restricted access locations:	Not limited for use in restricted access locations.	N	
2	PROTECTION FROM HAZARDS	+ + + +	P	
2.1	Protection from electric shock and energy hazard	ds + + +	Р	
2.1.1	Protection in operator access areas	No hazardous parts in operator access areas.	P	
2.1.1.1	Access to energized parts	Only SELV circuits involved and no energized parts.	N	
3	Test by inspection	21 21 21	N	
+	Test with test finger (Figure 2A)	* * * *	N_	
4	Test with test pin (Figure 2B)	10 10 10	N	
-	Test with test probe (Figure 2C)	666	N	
A				



1	IEC/EN 60950-1		-
Clause	Requirment + Test	Result + Remark	Verdict
7.	5. 5. 5. 5. 5. 5.	5, 5, 5,	7.
2.1.1.3	Access to ELV wiring	* * * *	N
-	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)	(see appended tables 2.10.2 and 2.10.5)	_
2.1.1.4	Access to hazardous voltage circuit wiring	7 0 0 0	N
2.1.1.5	Energy hazards:	No energy hazards.	N
2.1.1.6	Manual controls	No such controls.	N
2.1.1.7	Discharge of capacitors in equipment	No X-cap used.	N
4	Measured voltage (V); time-constant (s)	L 1 1 1	_
2.1.1.8	Energy hazards – d.c. mains supply		N
4	a) Capacitor connected to the d.c. mains supply .:	4 4 4	N
OF 3.4	b) Internal battery connected to the d.c. mains supply :		N
2.1.1.9	Audio amplifiers:	L 1 1 1 1	N
2.1.2	Protection in service access areas		N
2.1.3	Protection in restricted access locations	4 4 4	N

2.2	SELV circuits	" Zi" Zi" Zi"	P
2.2.1	General requirements	Class III equipment (supplied by SELV).	P
2.2.2	Voltages under normal conditions (V):	< 60V d.c. or <42.4Vpk.	P
2.2.3	Voltages under fault conditions (V):	< 60V d.c. or <42.4Vpk	P
2.2.4	Connection of SELV circuits to other circuits:	Connect to SELV circuit only	P

2.3	TNV circuits	10 10 10	N
2.3.1	Limits	TNV circuits	N
A 10	Type of TNV circuits:	A 10 A	_
2.3.2	Separation from other circuits and from accessible parts	7 7 7	N
2.3.2.1	General requirements	10 10 10	N
2.3.2.2	Protection by basic insulation	4 4 4	N
2.3.2.3	Protection by earthing	A A A	N
2.3.2.4	Protection by other constructions:	7, 7, 7,	N
2.3.3	Separation from hazardous voltages	4 4 4	N
7,	Insulation employed:	71, 71, 71,	_
2.3.4	Connection of TNV circuits to other circuits	* * *	N
A TA	Insulation employed:	70 10 10 10 TO	



- E	2 2 2 2 2	eport No. S19090402201001	2500
Clause	IEC/EN 60950-1  Requirment + Test	Result + Remark	Verdict
Glado	2 2 2 2 2 2	Tresum Tremant	3
2.3.5	Test for operating voltages generated externally	+ + + +	N
100			1
2.4	Limited current circuits	4 4 4	N
2.4.1	General requirements	Class III	N
2.4.2	Limit values	4, 4, 4,	N
05 0	Frequency (Hz):	* * * *	
1 30	Measured current (mA)	31 31 31	
4	Measured voltage (V):	+ + + +	
A JAN	Measured circuit capacitance (nF or µF):		
2.4.3	Connection of limited current circuits to other		N
A 1	circuits		1
1, 7,	2 2 2 2 2 2	2 2 2	2
2.5	Limited power sources	* * * *	N
4	a) Inherently limited output		N
	b) Impedance limited output		N
A. 1	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	Zin Zin Zin	N
4	Use of integrated circuit (IC) current limiters		N
1	d) Overcurrent protective device limited output	7, 7, 7,	N
at a	Max. output voltage (V), max. output current (A), max. apparent power (VA)	(See appendix table 2.5)	_
4	Current rating of overcurrent protective device (A) .:	4 4 4	
4			4
2.6	Provisions for earthing and bonding	4, 4, 4,	N
2.6.1	Protective earthing	Class III equipment	N
2.6.2	Functional earthing	74 74 74	N
4	Use of symbol for functional earthing		N
2.6.3	Protective earthing and protective bonding conductors	THE STORES	Ń
2.6.3.1	General	* * * *	N
2.6.3.2	Size of protective earthing conductors	110 110 110	N
d .4	Rated current (A), cross-sectional area (mm²), AWG	大品本品	_
2.6.3.3	Size of protective bonding conductors	4 4 5	≥ N

Rated current (A), cross-sectional area (mm²), AWG



	IEC/EN 60950-1	4 4 4	7
Clause	Requirment + Test	Result + Remark	Verdic
A 1	Protective current rating (A), cross-sectional area (mm²), AWG	大品品	
2.6.3.4	Resistance of earthing conductors and their terminations; resistance $(\Omega)$ , voltage drop (V), test current (A), duration (min)	+ A + A + A	N
2.6.3.5	Colour of insulation:	4, 4, 4,	N
2.6.4	Terminals	* 0 0 0	N
2.6.4.1	General	31 31 31	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	t pat pat pat	N
2.6.5	Integrity of protective earthing	4 4 4	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	1 10 10 10	N
2.6.5.4	Parts that can be removed by an operator	4 4 4	N
2.6.5.5	Parts removed during servicing		N
2.6.5.6	Corrosion resistance	7, 7, 7,	N
2.6.5.7	Screws for protective bonding	* * * *	N
2.6.5.8	Reliance on telecommunication network or cable distribution system	4" 4" 4"	N
A 1			.0
2.7	Overcurrent and earth fault protection in primary	circuits	N
2.7.1	Basic requirements	* * * *	N
7.	Instructions when protection relies on building installation	41 41 41	N
2.7.2	Faults not simulated in 5.3.7		N
2.7.3	Short-circuit backup protection	21. 21. 21.	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
Q 1			
2.8	Safety interlocks	4. 4. 4.	N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	2, 2, 2,	Ň



	IEC/EN 60950-1	
Clause	Requirment + Test Result + Remark	Verdict
2.8.3	Inadvertent reactivation	N-
2.8.4	Fail-safe operation	N
1	Protection against extreme hazard	N
2.8.5	Moving parts	N
2.8.6	Overriding	N
2.8.7	Switches, relays and their related circuits	N
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)	Ň
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		P
2.9.1	Properties of insulating materials	Class III equipment	Р
2.9.2	Humidity conditioning		N
7.	Relative humidity (%), temperature (°C):	2, 4, 4,	_
2.9.3	Grade of insulation	* * * *	P
2.9.4	Separation from hazardous voltages	74, 74, 74,	N
4	Method(s) used	L 1 1 1 1	_

2.10	Clearances, creepage distances and distances th	rough insulation	N
2.10.1	General	Only SELV circuits inside the EUT. Functional insulation evaluated in accordance with clause 5.3.4. c).	Z
2.10.1.1	Frequency:		N
2.10.1.2	Pollution degrees	4 4 4	N
2.10.1.3	Reduced values for functional insulation	The functional insulation complied with clause 5.3.4.	N
2.10.1.4	Intervening unconnected conductive parts	L .L .L .L	N
2.10.1.5	Insulation with varying dimensions		N
2.10.1.6	Special separation requirements	4 4 4	N
2.10.1.7	Insulation in circuits generating starting pulses		N
2.10.2	Determination of working voltage	2 2 2	ŠN.
2.10.2.1	General	* * * *	N_
2.10.2.2	RMS working voltage	10 10 10	N



	IEC/EN 60950-1		
Clause	Requirment + Test Result + R	emark	Verdict
2.10.2.3	Peak working voltage	2 2 5	N_
2.10.2.3	Clearances		N
2.10.3.1	General	1 1	N.
2.10.3.1	Mains transient voltages	0 0	N
2.10.5.2	a) AC mains supply	Z' Z' .	N
¥ )	b) Earthed d.c. mains supplies	· * *	N
47 14	c) Unearthed d.c. mains supplies	40 40	N
	d) Battery operation	5 5 5	NL
2.10.3.3	Clearances in primary circuits	A A	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:	3 3	N
2.10.3.7	Transients from d.c. mains supply	ما ما	N
2.10.3.8	Transients from telecommunication networks and cable distribution systems	ZIO ZIO	N
2.10.3.9	Measurement of transient voltage levels	4 4	N
7	a) Transients from a mains supply	3 3 2	N
+	For an a.c. mains supply	· * *	N
· (4)	For a d.c. mains supply	A 14	N
1	b) Transients from a telecommunication network :	7 7	N
2.10.4	Creepage distances	40 40	N
2.10.4.1	General	4 4	N
2.10.4.2	Material group and comparative tracking index	0 0	N
1	CTI tests: Material great to be used	oup IIIb is assumed	_
2.10.4.3	Minimum creepage distances	A A	N
2.10.5	Solid insulation	4 4	N
2.10.5.1	General	0 0	N
2.10.5.2	Distances through insulation	3, 3,	N
2.10.5.3	Insulating compound as solid insulation No such co	onstruction used.	N
2.10.5.4	Semiconductor devices Not used.	10 10	N
2.10.5.5.	Cemented joints Not used.	6 6	N
2.10.5.6	Thin sheet material – General Not used.	15 15	N
2.10.5.7	Separable thin sheet material Not used.	7 7	N
d /	Number of layers (pcs)	4 4	_
2.10.5.8	Non-separable thin sheet material Not used.	11 11	Ň



	IEC/EN 60950-1		1
Clause	Requirment + Test	Result + Remark	Verdic
7	4, 4, 4, 4, 5, 5, 5	4. 4. 4.	5
2.10.5.9	Thin sheet material – standard test procedure	Not used.	N
11/10	Electric strength test		_
2.10.5.10	Thin sheet material – alternative test procedure	Not used.	N
4 14	Electric strength test		_
2.10.5.11	Insulation in wound components	Not used.	N
2.10.5.12	Wire in wound components		N
7,	Working voltage	2 2 2	≤ N
* ^	a) Basic insulation not under stress	* * * *	N
4 14	b) Basic, supplementary, reinforced insulation:		N
1	c) Compliance with Annex U		N
QT 3.0	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
4	Electric strength test	4 4 4	_
1 0	Routine test	* * * *	N
2.10.5.14	Additional insulation in wound components	21 21 21	N
ملہ	Working voltage	J- J- J- J-	N
Q 16	- Basic insulation not under stress		N
	- Supplementary, reinforced insulation:	4 4 4	N
2.10.6	Construction of printed boards		N
2.10.6.1	Uncoated printed boards	7, 7, 7,	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	4" 4" 4"	N
2.10.6.4	Insulation between conductors on different layers of a printed board		N
	Distance through insulation		N
Q ,Q	Number of insulation layers (pcs)		N
2.10.7	Component external terminations	4 4 4	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	7 7 7	N
2.10.8.4	Abrasion resistance test	* * * *	N
2.10.9	Thermal cycling		N

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- 2	2 2 2 2 2 2 2	7 7 7	2
2.10.10	Test for Pollution Degree 1 environment and insulating compound	<b>*</b> * * * * *	N
2.10.11	Tests for semiconductor devices and cemented joints	* * * * *	_ N
2.10.12	Enclosed and sealed parts		N
	4 4 4 4 4		
3	Wiring, connections and supply		P
3.1	General		P
3.1.1	Current rating and overcurrent protection	Internal wiring gauge is suitable for current intended to be carried.	P
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges which could damage the insulation and cause hazards.	P
3.1.3	Securing of internal wiring	4 4 4 4	N
3.1.4	Insulation of conductors	Insulation on internal conductors is considered to be of adequate quality and suitable for the application and the working voltage involved.	P
3.1.5	Beads and ceramic insulators	AT AT AT	N
3.1.6	Screws for electrical contact pressure	4. 4. 4.	N
3.1.7	Insulating materials in electrical connections	* * * *	N-
3.1.8	Self-tapping and spaced thread screws	L	N
3.1.9	Termination of conductors	L .L .L .L	N
9 ,9	10 N pull test	D. D. D. D.	N
3.1.10	Sleeving on wiring	4 4 4	N
0 0			
3.2	Connection to a mains supply	2 2 2	N
3.2.1	Means of connection	* * * *	N_
3.2.1.1	Connection to an a.c. mains supply		N
3.2.1.2	Connection to a d.c. mains supply	4 4 4	N
3.2.2	Multiple supply connections	A A A A	N
3.2.3	Permanently connected equipment	7 7 7	N
at la	Number of conductors, diameter of cable and conduits (mm)	of the total	_
3.2.4	Appliance inlets	1, 1, 1,	N
3.2.5	Power supply cords	A A A A	N



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Clause	Requirment + Test	Result + Remark	Verdict
Clause	Requiriment + Test	Nesuit + Nemaik	Verdici
3.2.5.1	AC power supply cords	L 1 1 1	N
	Туре::		_
ot o	Rated current (A), cross-sectional area (mm²), AWG:	totata	_
3.2.5.2	DC power supply cords	30 30 30	≤ N
3.2.6	Cord anchorages and strain relief	+ + + +	N
	Mass of equipment (kg), pull (N)	10 10 10	_
1	Longitudinal displacement (mm):		_
3.2.7	Protection against mechanical damage	0 0 0	N
3.2.8	Cord guards	4 4 4	N
0	Diameter or minor dimension D (mm); test mass (g)	* * * * *	
1			
_	Radius of curvature of cord (mm):		_
3.2.9	Supply wiring space		N
4	7 7 7 7 7 7	4 4 4	7
3.3	Wiring terminals for connection of external condu	uctors	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):	50 50 50 50 S	_
3.3.5	Wiring terminal sizes	* * * *	N_
W 71	Rated current (A), type, nominal thread diameter (mm):	Zilv Zilv Zilv	_
3.3.6	Wiring terminal design	* * * *	N-
3.3.7	Grouping of wiring terminals	21 21 21	N
3.3.8	Stranded wire	L 14 14 14	N
9			19
3.4	Disconnection from the mains supply	4 4 4	N
3.4.1	General requirement		N
3.4.2	Disconnect devices	7, 7, 7,	N
3.4.3	Permanently connected equipment	* * * *	N
3.4.4	Parts which remain energized	30 30 30	N
2.4.5	Switches in flexible cords		N
3.4.5	Switches in hexible colds		



	Requirment + Test	Result + Remark	Verdict
Clause	Troquiment Teet	Troodic Tromain	Volum
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	4 4 4	N
3.4.10	Interconnected equipment		N
3.4.11	Multiple power sources	4 4 4	N
0	* * * * * * * *	at at at at	0
3.5	Interconnection of equipment	21 21 21	S P
3.5.1	General requirements	+ + + +	P_
3.5.2	Types of interconnection circuits:	SELV	Р
3.5.3	ELV circuits as interconnection circuits	4 4 4	N
3.5.4	Data ports for additional equipment		P
5	2 2 2 2 2 2	4 4 4	5
4	Physical requirements	+ + + +	P
4.1	Stability		N
4	Angle of 10°	H	N
	Test force (N)		N
4 2	Mechanical strength		Р
<b>4.2</b>	Mechanical strength General	+ + + +	P
<b>4.2</b> 4.2.1	General	(see Annex DD)	Р
4.2.1	General Rack-mounted equipment.	(see Annex DD)	P
4.2.1	General	(see Annex DD)  10N force applied to components	Р
/ <del>/</del>	General Rack-mounted equipment.	10N force applied to	P
4.2.1 4.2.2 4.2.3	General  Rack-mounted equipment.  Steady force test, 10 N	10N force applied to	P N P
4.2.1	General Rack-mounted equipment. Steady force test, 10 N Steady force test, 30 N	10N force applied to	P N P
4.2.1 4.2.2 4.2.3 4.2.4	General Rack-mounted equipment. Steady force test, 10 N Steady force test, 30 N Steady force test, 250 N	10N force applied to	P N P N
4.2.1 4.2.2 4.2.3 4.2.4	General Rack-mounted equipment. Steady force test, 10 N Steady force test, 30 N Steady force test, 250 N Impact test	10N force applied to	P N P N P
4.2.1 4.2.2 4.2.3 4.2.4	General Rack-mounted equipment. Steady force test, 10 N Steady force test, 30 N Steady force test, 250 N Impact test Fall test	10N force applied to	P N P N N N N
4.2.1 4.2.2 4.2.3 4.2.4 4.2.5	General Rack-mounted equipment. Steady force test, 10 N Steady force test, 30 N Steady force test, 250 N Impact test Fall test Swing test	10N force applied to components	P N P N P N N
4.2.1 4.2.2 4.2.3 4.2.4 4.2.5	General Rack-mounted equipment. Steady force test, 10 N Steady force test, 30 N Steady force test, 250 N Impact test Fall test Swing test Drop test; height (mm):	10N force applied to components  1000mm, 3drops	P N P N N P N N P
4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.2.6 4.2.7	General Rack-mounted equipment. Steady force test, 10 N Steady force test, 30 N Steady force test, 250 N Impact test Fall test Swing test Drop test; height (mm)	10N force applied to components  1000mm, 3drops	P N P N N P N P P P
4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.2.6 4.2.7	General Rack-mounted equipment. Steady force test, 10 N Steady force test, 30 N Steady force test, 250 N Impact test Fall test Swing test Drop test; height (mm)	10N force applied to components  1000mm, 3drops 70°C, 7h  (see separate test report or	P N P N N N N N N N N N N N N N N N N N



Clause	Requirment + Test	Result + Remark	Verdic
7	2 2 2 2 2	2 2 2	7
4.3.1	Edges and corners	Edges or corners are rounded.	P
4.3.2	Handles and manual controls; force (N):	No handles or manual controls provided.	N
4.3.3	Adjustable controls	No adjustable controls provided.	N
4.3.4	Securing of parts	Mechanical fixings in such a way designed that they will withstand mechanical stress occurring in normal use.	PART
4.3.5	Connection by plugs and sockets	* 0 0 0	N
4.3.6	Direct plug-in equipment	Not direct plug-in equipment	Ň
+	Torque	+ + + +	_
119	Compliance with the relevant mains plug standard		N
4.3.7	Heating elements in earthed equipment	No heating elements provided.	N
4.3.8	Batteries	(See appended table 4.3.8)	Р
4	- Overcharging of a rechargeable battery	7, 7, 7,	P
of A	- Unintentional charging of a non-rechargeable battery	* 10 10 10	N
-	- Reverse charging of a rechargeable battery	Construction prvented reverse	N
	- Excessive discharging rate for any battery		P
4.3.9	Oil and grease	No oil and grease.	N
4.3.10	Dust, powders, liquids and gases	No dust, powders, liquids and gases.	Z
4.3.11	Containers for liquids or gases	No containers for liquid and gases.	N
4.3.12	Flammable liquids:	No flammable liquid.	N
+	Quantity of liquid (I):	+ + + +	N_
4	Flash point (°C):		N
4.3.13	Radiation	4 4 4 .	P
4.3.13.1	General		Р
4.3.13.2	Ionizing radiation	4. 4. 4.	N
d 4	Measured radiation (pA/kg):	t of of of	
3	Measured high-voltage (kV):	21 21 21	
+	Measured focus voltage (kV):	* * * *	_
V 11	CRT markings:	V 10 10 10	_
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	The equipment does not produce significant UV radiation.	N



-	IEC/EN 60950-1		-
Clause	Requirment + Test	Result + Remark	Verdic
		5 5 5	2
0	Part, property, retention after test, flammability classification:	t at at at	N
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	The equipment does not produce significant UV radiation.	N
4.3.13.5	Lasers (including laser diodes) and LEDs	2 2 2	Р
4.3.13.5.1	Lasers (including laser diodes)	* * * *	Р
W 100	Laser class		
4.3.13.5.2	Light emitting diodes (LEDs)	Torch LED, Risk Group 1	_
4.3.13.6	Other types:		N
	7 7 7 7 7 7		
4.4	Protection against hazardous moving parts		N
4.4.1	General	No moving parts	N
4.4.2	Protection in operator access areas:	* * * *	N
7.1	Household and home/office document/media shredders	(see Annex EE)	N
4.4.3	Protection in restricted access locations:		N
4.4.4	Protection in service access areas	2 2 2	N
4.4.5	Protection against moving fan blades	* * * *	N
4.4.5.1	General	311 311 311	N
A- A	Not considered to cause pain or injury. a)	L 1 1 1	N
4 14	Is considered to cause pain, not injury. b)		N
. 6	Considered to cause injury. c):	4 4 4	N
4.4.5.2	Protection for users		N
-	Use of symbol or warning	4, 4, 4,	N
4.4.5.3	Protection for service persons	* * * *	N
200	Use of symbol or warning:	21 21 21	N
4.5	Thermal requirements	* * *	Р
4.5.1	General	4. 4. 4.	P
4.5.2	Temperature tests	* * * *	P
31	Normal load condition per Annex L	21 21 21	_
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat:	(see appended table 4.5.5) No live parts	N



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Clause	Requirment + Test Result + Remark	Verdict
5.	4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	5.
4.6	Openings in enclosures	P
4.6.1	Top and side openings	N
1	Dimensions (mm):	_
4.6.2	Bottoms of fire enclosures	Р
4	Construction of the bottomm, dimensions (mm) .: No opening	_
4.6.3	Doors or covers in fire enclosures	N
4.6.4	Openings in transportable equipment	<b>S</b> P
4.6.4.1	Constructional design measures	P
W 114	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
0 0	Conditioning temperature (°C), time (weeks):	_
1		1
4.7	Resistance to fire	P

4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame		Р
4 2	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	P
7.1	Method 2, application of all of simulated fault condition tests	(see appended table 5.3)	N
4.7.2	Conditions for a fire enclosure		Р
4.7.2.1	Parts requiring a fire enclosure	The battery was not complied with requiement of clause 2.5	P
4.7.2.2	Parts not requiring a fire enclosure		N
4.7.3	Materials	4 4 4	P
4.7.3.1	General		Р
4.7.3.2	Materials for fire enclosures	Plastic enclosure: V-0	S P
4.7.3.3	Materials for components and other parts outside fire enclosures	+ 4 4 4	N
4.7.3.4	Materials for components and other parts inside fire enclosures	PCB: V-1	P
4.7.3.5	Materials for air filter assemblies	No air filters assemblies.	N
4.7.3.6	Materials used in high-voltage components	No high voltage component.	N

5	ELECTRICAL REQUIREMENTS AND SIMULATED	ABNORMAL CONDITIONS	P
5.1	Touch current and protective conductor current	* * * *	N
5.1.1	General	(see appended Table 5.1)	N



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Clause	Requirment + Test	Result + Remark	Verdict
Clause	Requilifient + Test	Result + Remark	Verdici
5.1.2	Configuration of equipment under test (EUT)	L 1 1 1 1	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	t of of of	N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	4 4 4	N
5.1.3	Test circuit		N
5.1.4	Application of measuring instrument	See Annex D	N
5.1.5	Test procedure		N
5.1.6	Test measurements	2 2 2	N
*	Supply voltage (V):	* * * *	_
1	Measured touch current (mA):	(See appended table 5.1)	_
	Max. allowed touch current (mA):	(See appended table 5.1)	_
Q 1	Measured protective conductor current (mA):		
4	Max. allowed protective conductor current (mA):	4 4 4	
5.1.7	Equipment with touch current exceeding 3,5 mA		N
5.1.7.1	General:	4, 4, 4,	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	t at at at	N
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	+ 4 4 4	N
. <u> </u>	Supply voltage (V):	74 74 74	_
4	Measured touch current (mA):	L 1 1 1 1	
9	Max. allowed touch current (mA):	7 10 10 10	
5.1.8.2	Summation of touch currents from telecommunication networks	t of of of	N
31	a) EUT with earthed telecommunication ports:	31, 31, 31,	N
ot is	b) EUT whose telecommunication ports have no reference to protective earth	+ 4 4 4	N
5	4 4 4 4 4	4. 4. 4.	4
5.2	Electric strength	* * * * *	N
5.2.1	General	(see appended table 5.2)	N
5.2.2	Test procedure	(see appended table 5.2)	N



_	IEC/EN 60950-1		1
Clause	Requirment + Test	Result + Remark	Verdict
	5, 5, 5, 5, 5, 5,	7 7 7	7
5.3	Abnormal operating and fault conditions	<del>*                                    </del>	P
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P
5.3.2	Motors	+ + + +	N
5.3.3	Transformers		N
5.3.4	Functional insulation:	(see appended table 5.3)	Р
5.3.5	Electromechanical components	No electromechanical component	N
5.3.6	Audio amplifiers in ITE:	+ x+ x+ x+	N
5.3.7	Simulation of faults	(see appended table 5.3)	P
5.3.8	Unattended equipment	None of them are used.	N
5.3.9	Compliance criteria for abnormal operating and fault conditions	No fire propagated beyond the equipment. No molten metal was emitted.	Р
5.3.9.1	During the tests	Ditto 🗸	P
5.3.9.2	After the tests	Ditto	P
+ /	+ + + + + +	* * * *	4
6	CONNECTION TO TELECOMMUNICATION NETWO	ORKS	N
6.1	Protection of telecommunication network service equipment connected to the network, from hazard		N
6.1.1	Protection from hazardous voltages	21 21 21	N
6.1.2	Separation of the telecommunication network from ea	arth J. J.	N
6.1.2.1	Requirements	(see appended table 5.2)	N
. 6	Supply voltage (V):	2 2 2	_
4	Current in the test circuit (mA):		_
6.1.2.2	Exclusions:	4. 4. 4.	N
4	* * * * * * * *	* * * *	4
6.2	Protection of equipment users from overvoltages networks	on telecommunication	N
6.2.1	Separation requirements		N
6.2.2	Electric strength test procedure	2 2 2	N
6.2.2.1	Impulse test	(see appended table 5.2)	N
6.2.2.2	Steady-state test	(see appended table 5.2)	N
	Compliance criteria		N
6.2.2.3			-
6.2.2.3			19
6.2.2.3 <b>6.3</b>	Protection of the telecommunication wiring syste	m from overheating	N



_	IEC/EN 60950-1		1
Clause	Requirment + Test	Result + Remark	Verdic
	Current limiting method:	7 7 7	
	Current miniming method		~
7	CONNECTION TO CABLE DISTRIBUTION SYSTEM	MS P P P	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 N
7.3	Protection of equipment users from overvoltages on the cable distribution system		Z
7.4	Insulation between primary circuits and cable distribution systems	4 4 4	N
7.4.1	General		N
7.4.2	Voltage surge test	(see appended table 5.2)	N
7.4.3	Impulse test	(see appended table 5.2)	N
			4
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AN	ID 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)	71 71 71 71 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
A.1.1	Samples		
4	Wall thickness (mm):	4 4 4	<u> </u>
A.1.2	Conditioning of samples; temperature (°C):		N
A.1.3	Mounting of samples	2 2 2	N
A.1.4	Test flame (see IEC 60695-11-3)	* * * * *	N
W 1	Flame A, B, C or D:		_
A.1.5	Test procedure		N
A.1.6	Compliance criteria		N
4	Sample 1 burning time (s):	4. 4. 4.	_
0	Sample 2 burning time (s):		
	Sample 3 burning time (s):	7, 7, 7,	_
A.2	Flammability test for fire enclosures of movable e not exceeding 18 kg, and for material and compor enclosures (see 4.7.3.2 and 4.7.3.4)		N
A.2.1	Samples, material:	* * * *	_
V 1	Wall thickness (mm)	10 10 10	_
A.2.2	Conditioning of samples; temperature (°C):		N
A.2.3	Mounting of samples:		N



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Clause	Requirment + Test Result + Remark	Verdict
2	4 4 4 4 4 4 4 4 4	2
A.2.4	Test flame (see IEC 60695-11-4)	N_
Y A	Flame A, B or C	_
A.2.5	Test procedure	N
A.2.6	Compliance criteria	N
4	Sample 1 burning time (s):	· _
0 1	Sample 2 burning time (s):	_
1	Sample 3 burning time (s)	-
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9	N-
7	Sample 1 burning time (s)	_
4	Sample 2 burning time (s)	
9	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)	P
B.1	General requirements	N .
*	Position	_
~ <	Manufacturer:	
1	Type:	_
4	Rated values:	
B.2	Test conditions	N
B.3	Maximum temperatures (see appended table 5.3)	N
B.4	Running overload test (see appended table 5.3)	N ·
B.5	Locked-rotor overload test	N
	Test duration (days)	_
4	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



1	IEC/EN 60950-1		1
Clause	Requirment + Test	Result + Remark	Verdic
2	4 4 4 4 4 4	5 5 5	2
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	of the total	P
B.7.1	General	4 4 4	P
B.7.2	Test procedure	of of of of	P
B.7.3	Alternative test procedure	(see appended table 5.3)	P
B.7.4	Electric strength test; test voltage (V):	* * * *	N
B.8	Test for motors with capacitors	(see appended table 5.3)	N
B.9	Test for three-phase motors	(see appended table 5.3)	N
B.10	Test for series motors		N
2	Operating voltage (V):	4, 4, 4,	_
0	* * * * * * * *	* * * * *	0
c 🕓	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)	21 21 21	≤ N
4	Position	* * * *	_
4	Manufacturer:	(see appended table 1.5.1)	_
-	Туре	(see appended table 1.5.1)	_
0 1	Rated values	(see appended table 1.5.1)	
-	Method of protection	4 4 4	
C.1	Overload test	(see appended table 5.3)	N
C.2	Insulation	(see appended tables 5.2 and C2)	N
Ø 3	Protection from displacement of windings		N
-	222222	222	7
DF 3	ANNEX D, MEASURING INSTRUMENTS FOR TOU (see 5.1.4)	JCH-CURRENT TESTS	N
D.1	Measuring instrument	4 4 4	N
D.2	Alternative measuring instrument		N
4	4 4 4 4 4 4	4 4 4	7
EY .	ANNEX E, TEMPERATURE RISE OF A WINDING	(see 1.4.13)	N
1	3, 3, 3, 3, 3, 3, 3	30 30 30	1
d .	ANNEX F, MEASUREMENT OF CLEARANCES AN (see 2.10 and Annex G)	ID CREEPAGE DISTANCES	Z
4	4 4 4 4 4 4	4. 4. 4.	7
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINED CLEARANCES	MINING MINIMUM	N
G.1	Clearances	4 4 4	N
G.1.1	General	* * * *	N



10 1	EK北测	et	At &	opert No. \$10000	102201001	at
		IEC/E	N 60950-1	eport No. S190904	102201001	<u> </u>
Clause	Requirment + Test	1L0/L	47	Result + Remark	- 4	Verdict
Olddoo	Troquiment - Tool	7,1	21 25	result i remark	2,1	Volutor
G.1.2	Summary of the procedure for clearances	or determin	ning minimum	t at a	- 4	N
G.2	Determination of mains tra	nsient vo	Itage (V)	4 4	5	N
G.2.1	AC mains supply			* 0 0	- 4	N
G.2.2	Earthed d.c. mains supplies			21 21	3	N
G.2.3	Unearthed d.c. mains supplied	es		+ + 1	- 4	N
G.2.4	Battery operation	100	X X		100	N
		N. Cot	ALIE A	er fiet fiel	- Aigh	ALIET .
State State	*	ALIENT AL	ALEST AND	at Tiet Tiel	- Friend	Fret.
site site		Zit.	7t 7th	hen NTEK Testing T	- X	- A-
±1,00° =1,00°	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Zit.	7 - 7 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1	- Zi**	Z
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 AL AL	Zi.C.	71 71 X	AL AL A	- Ziill	Zie.
\$100 Z100		Zieler .	THE THE			
51 <sup>(1)</sup> 21 <sup>(1)</sup>	A AND AND AND	Zi.Cl	ALIE ALE	hen NTEK Testing T	Zill L	Z. (1)
41 41 A		A. C.	410 A	1 4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Z. C.	¥100
S. S. S.	THE THE THE	N. C.	FILE FR	THE AND	Y. C.	3.0°
Sille Sile	A AND AND AND	A. C.	410 A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A. C.	ATTENT .
		-	1	* * 1	- 1	1



Clause	Desiring and J. Tool	Decult / Demands	Mandia
Clause	Requirment + Test	Result + Remark	Verdic
G.3	Determination of telecommunication network transient voltage (V):	+ 10 10 10	N
G.4	Determination of required withstand voltage (V)	4 4 4	N
G.4.1	Mains transients and internal repetitive peaks:	* 0 0 0	N
G.4.2	Transients from telecommunication networks:	7, 7, 7,	N
G.4.3	Combination of transients	* * * *	N
G.4.4	Transients from cable distribution systems	The the the	N
G.5	Measurement of transient voltages (V)	4 4 4	N
Ø 1	a) Transients from a mains supply		N
1	For an a.c. mains supply	7, 7, 7,	N
d .	For a d.c. mains supply	* * * *	N
	b) Transients from a telecommunication network	31 31 31	N
G.6	Determination of minimum clearances:	+ * * * *	N
9			N
н, 💆	ANNEX H, IONIZING RADIATION (see 4.3.13)	4 4 4	N
Ø 1			.0
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTE	NTIALS (see 2.6.5.6)	N
*	Metal(s) used	* * * *	_
7.	The The The The The The The	71, 71, 71,	7.
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and §	5.3.8)	N
K.1	Making and breaking capacity		N
K.2	Thermostat reliability; operating voltage (V):	2 2 2	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	7, 7, 7,	N
K.6	Stability of operation	(see appended table 5.3)	N
1		110 110 110	11
Lt &	ANNEX L, NORMAL LOAD CONDITIONS FOR SO BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	ME TYPES OF ELECTRICAL	P
L.1	Typewriters	2 2 2	N
L.2	Adding machines and cash registers	* * * *	N
L.3	Erasers A A A	10 10 10	N
L.4	Pencil sharpeners		N



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1	IEC/EN 60950-1	7
Clause	Requirment + Test Result + Remark	Verdict
7.	4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	7.
L.6	Motor-operated files	N_
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):	_
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):	S N
+	* * * * * * * * * * *	*
N A	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	N
N.1	ITU-T impulse test generators	N
N.2 🕙	IEC 60065 impulse test generator	N
大	* * * * * * * * * * * *	*
P	ANNEX P, NORMATIVE REFERENCES	
1		7
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	N
4	- Preferred climatic categories:	N
05 0	- Maximum continuous voltage:	N
3	- Combination pulse current:	Ň
at a	Body of the VDR Test according to IEC60695-11-5	N
4	Body of the VDR. Flammability class of material ( min V-1):	N



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Clause	Requirment + Test Result + Remark	Verdic
R.	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL	N-
W 1	PROGRAMMES	100
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 TESTING (see 6.2.2.3)	N
S.1 🍣	Test equipment	N 🕙
S.2	Test procedure	N_
S.3	Examples of waveforms during impulse testing	N
1		7
	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)	N
+		_
4		Jak.
U 💆	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED	N
u Z	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)	/z
		N -
OF ST	INSULATION (see 2.10.5.4)	-
ot si	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	N
<b>v</b>	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1) Introduction	NN
ot si	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	
<b>V V 1 V 1 V 1 V 2</b>	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1) Introduction TN power distribution systems	N N N
/ /.1 /.2	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1) Introduction TN power distribution systems  ANNEX W, SUMMATION OF TOUCH CURRENTS	
V V.1 V.2 N W.1	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1) Introduction TN power distribution systems  ANNEX W, SUMMATION OF TOUCH CURRENTS Touch current from electronic circuits	N N N N N N N N N N N N N N N N N N N
V.1 V.2 W.1 W.1	INSULATION (see 2.10.5.4)  ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)  Introduction  TN power distribution systems  ANNEX W, SUMMATION OF TOUCH CURRENTS  Touch current from electronic circuits  Floating circuits	N N N N N N N N N N N N N N N N N N N
V V.1 V.2 N N.1 N.1.1 N.1.2	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1) Introduction TN power distribution systems  ANNEX W, SUMMATION OF TOUCH CURRENTS Touch current from electronic circuits Floating circuits Earthed circuits	N
V V.1 V.2 V.1	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)  Introduction TN power distribution systems  ANNEX W, SUMMATION OF TOUCH CURRENTS Touch current from electronic circuits Floating circuits Earthed circuits Interconnection of several equipments	N N N N N N N N N N N N N N N N N N N
V.1 V.2  N.1 V.1 V.1 V.1.1 V.1.2 V.2 V.2 V.2.1	INSULATION (see 2.10.5.4)  ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)  Introduction  TN power distribution systems  ANNEX W, SUMMATION OF TOUCH CURRENTS  Touch current from electronic circuits  Floating circuits  Earthed circuits  Interconnection of several equipments  Isolation	N
//.1 //.2  N N.1 N.1.1 N.1.2 N.2 N.2 N.2.1 N.2.1	INSULATION (see 2.10.5.4)  ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)  Introduction  TN power distribution systems  ANNEX W, SUMMATION OF TOUCH CURRENTS  Touch current from electronic circuits  Floating circuits  Earthed circuits  Interconnection of several equipments  Isolation  Common return, isolated from earth	N
V V.1 V.2 N N.1 N.1.1 N.1.2 N.2 N.2.1 N.2.2	INSULATION (see 2.10.5.4)  ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)  Introduction  TN power distribution systems  ANNEX W, SUMMATION OF TOUCH CURRENTS  Touch current from electronic circuits  Floating circuits  Earthed circuits  Interconnection of several equipments  Isolation	N
V.1 V.2 W.1 W.1.1 W.1.2 W.2.1 W.2.2 W.2.3	INSULATION (see 2.10.5.4)  ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)  Introduction  TN power distribution systems  ANNEX W, SUMMATION OF TOUCH CURRENTS  Touch current from electronic circuits  Floating circuits  Earthed circuits  Interconnection of several equipments  Isolation  Common return, isolated from earth  Common return, connected to protective earth	N
V V.1 V.2 N N.1 N.1.1 N.1.2 N.2 N.2.1 N.2.2	INSULATION (see 2.10.5.4)  ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)  Introduction  TN power distribution systems  ANNEX W, SUMMATION OF TOUCH CURRENTS  Touch current from electronic circuits  Floating circuits  Earthed circuits  Interconnection of several equipments  Isolation  Common return, isolated from earth	N
V V.1 V.2 N N.1 N.1.1 N.1.2 N.2 N.2.1 N.2.2 N.2.3	INSULATION (see 2.10.5.4)  ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)  Introduction  TN power distribution systems  ANNEX W, SUMMATION OF TOUCH CURRENTS  Touch current from electronic circuits  Floating circuits  Earthed circuits  Interconnection of several equipments  Isolation  Common return, isolated from earth  Common return, connected to protective earth  ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause	N



. 5	IEC/EN 60950-1	-
Clause	Requirment + Test Result + Remark	Verdic
7	2 2 2 2 2 2 2 2 2	2
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
		1100
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	N
0 1		.07
AA 🔷	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N
1	* * * * * * * * * * *	*
вв	ANNEX BB, CHANGES IN THE SECOND EDITION	
cc	ANNEX CC, Evaluation of integrated circuit (IC) current limiters	N
CC.1	General	N
CC.2	Test program 1	N
CC.3	Test program 2	N
CC.4	Test program 3	N
CC.5	Compliance	N
DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment	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	N
EE.1	General	N
EE.2	Markings and instructions	N
	Use of markings or symbols	N
4	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
65 6	Use of markings or symbols	N



NTE	EK北测	7.	7 7	- Page 3	0 of 62-	
A TO			Re	eport No. S190904	102201001	F
	1- 4-4	IEC/E	N 60950-1	t t	7 7	
Clause	Requirment + Test	200	21° 21	Result + Remark	Ve	erdict
EE.5	Protection against haza	67 67	67 6	t at a	+ +	N
	Test with wedge probe			41, 41,		N N
10 10	Test with wedge probe	(Figure EET and	u EE2)	100	4	IN .
2	4 4 4	7	7 7	7, 7,	4 4	
AT A	t at at	1	At A	t at a		0
7	7 7 4	7	4 4	4 4	4 4	
AT A		TO SEE	THE R	T AT A	THE P	
*	+	* ~ *	4	+ 7 + 7		4
	3 <sup>(4)</sup> 3 <sup>(4)</sup> 3	30 30	3 3		300 30	
A 0	+ * *	* *	1	+ 4 4	t at	*
31" Z1"	Fill Fill F	71 71V	Ziv Ziv	211 211	Zil Zi	
A 0	t at at	at at	ot o	t at a	t of	ot
7	7 7 7	7.	7, 7,	7, 7,	7 7	
at a	t at at	at at	At A	t at a	t at	4
7. 4.	4. 4. 4	2. 4.	4. 4.	4. 4.	7. 4	,
AT A		AT AT	AT A	T AT A	THE A	
7 4		* 5 *	4 4	hen NTEK Testing T	- 4 4	1
NO NO		10 70	300 30		3,00	
At A	+ * *	水水	At 1	+ 1	+ *	*
51" Z1"	Fir Fir E	Siv Ziv	Till Till	711 711V	Ziv Zi	
A 0	t at at	at at	A .	t of d	t at	4
7, 7,	4 4 4	7	7, 7,	7, 7,	7 7	
At a	t at at	at at	At A	t at a	t all a	ot
2 4	2 2 4	7	7 7	7 7	4 4	,
A A	t at at	A A	AT A	t at a	To the second	0
7. 4.	4 4 4	7 4	4 4	4 4	4 4	
AT A		AT AT	AT A	F AT A	A S	
	F 1 7 7	*	Shenzl	nen NTEK Testina T	echnology Co L	td
	the subter	ist sist	The state of		10	0
	2 2 2		7 7		7 7	



	4 4 4	IEC/EN 60950-1		-	5 1
Clause	Requirment + Test	A A R	Result + Remark	-	Verdict

2					additional to those in	≤N/A
الم أ	IEC60950-1 and it'	s amendme	ts are prefixed	"Z"	ال المالية	
Contents	Add the following a	nnexes:	Q 10	W.		P
at at	Annex ZB (normative)  Annex ZB (informative)  Annex ZB (informative)  LEC and CENEL EC and designations for		publications with their corresponding European			5
(A2:2013)				3		
General	Delete all the "country" notes in the reference document (IEC 60950-1:2005) according to the following list:				P	
General (A1:2010)	1.4.8 Note 2 1.5.8 Note 2 2.2.3 Note 2.3.2.1 Note 2 2.7.1 Note 3.2.1.1 Note 4.3.6 Note 1 & 2 4.7.3.1Note 2 6 Note 2 & 5 6.2.2 Note 7.1 Note 3 2 G.2.1 Note 2 Delete all the "cour	1.5.1 1.5.9.4 2.2.4 2.3.4 2.10.3.2 3.2.4 4.7 5.1.7.1 6.1.2.1 6.2.2.1 7.2 Annex H			Note Note 4, 5 & 6 Note Note 2 & 3 Note 3 Note 2 Note Note 1 Note Note Note Note Solution Note Note 1 &	P. P
(A1:2010)	1:2005/A1:2010) ad 1.5.7.1 Note 6.2.2.1 Note	7. 4	he following lis 6.1.2.1 EE.3	t: Note 2 Note	of the time	7
General (A2:2013)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A2:2013) according to the following list: 2.7.1 Note * 2.10.3.1 Note 2 6.2.2. Note * Note of secretary: Text of Common Modification remains unchanged.			J. P.		
1.1.1 (A1:2010)	Replace the text of NOTE 3 The requirement equipment. See IEC Gu 60065 applies.	nts of EN 6006	5 may also be use	d to meet safety nultimedia equip	requirements for multimedia ment. For television sets EN	N



7	IEC/EN 60950-1	4 4 4	7
Clause	Requirment + Test	Result + Remark	Verdict
-	5. 5. 5. 5. 5. 5. 5.	5. 5. 5.	5.
1.3.Z1	Add the following subclause:	+ * * *	P
4 14	1.3.Z1 Exposure to excessive sound pressure	14 14 14	3-47
4	The apparatus shall be so designed and	4 4 4	-
大 大	constructed as to present no danger when used	t	*
Y 144	for its intended purpose, either in normal operating conditions or under fault conditions, particularly	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14
-	providing protection against exposure to	4 4 4	7
* *	excessive sound pressures from headphones or	* * * *	1
7 16	earphones.		1
	NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment:		
05 05	Headphones and earphones associated with portable		4
	audio equipment - Maximum sound pressure level	74, 74, 74,	1
1	measurement methodology and limit considerations - Part 1: General method for "one package equipment",		
O .O	and in EN 50332-2, Sound system equipment:		.05
	Headphones and earphones associated with portable	2 2 2	3
	audio equipment - Maximum sound pressure level measurement methodology and limit considerations -		
	Part 2: Guidelines to associate sets with headphones		-0
(A12:2011)	coming from different manufacturers.	- i' i' i'	Р
A- A-	In EN 60950-1:2006/A12:2011	+ + + +	*
4 14	Delete the addition of 1.3.Z1 / EN 60950-1:2006		1-47
5	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	5, 5, 5,	5
1.5.1	Add the following NOTE:		Р
7,	NOTE Z1 The use of certain substances in electrical	2 2 2	3
A- A-	and electronic equipment is restricted within the EU: see Directive 2002/95/EC.	t at at at	-
(Added info*)	New Directive 2011/65/11 *		
1.7.2.1	In addition, for a PORTABLE SOUND SYSTEM,	7, 7, 7,	P
(A1:2010)	the instructions shall include a warning that	+ + + +	×
4 14	excessive sound pressure from earphones and headphones can cause hearing loss.	14 14 14	14
1.7.2.1	In EN 60950-1:2006/A12:2011	4 4 4	Р
(A12.2011)	Delete NOTE Z1 and the addition for Portable	* * * *	1
Y AN	Sound System.	A A A	1
4	Add the following clause and annex to the existing	6 6 6	
of of	standard and amendments.		A.
1 110	Zx Protection against excessive sound presiplayers	sure from personal music	Р



1		IEC/EN 609	50-1		
Clause	Requirment + Test		Resu	ıl <mark>t + Remar</mark> k	Verd
	Zx.1 General This sub-clause specifies protection against exces personal music players the ear. It also specifies earphones and headpho personal music players.	sive sound pressu that are closely co requirements for	ure from upled to	sich zich	Arith Arith
	A personal music player for personal use, that:  – is designed to allow the recorded or broadcast  – primarily uses headphe can be worn in or on or allows the user to walk NOTE 1 Examples are hand-helplayers, MP3 audio players, Sr features, PDA's or similar equi	e user to listen to sound or video; a ones or earphones r around the ears; around while in ueld or body-worn portamart Phones with MP3	nd s that and lse. ble CD	and and	
t And	A personal music player headphones intended to music players shall compof this sub-clause.	be used with pers	sonal	and with	ALIENT ALIEN
	The requirements in this music or video mode onl		alid for	AT AT	
* Z.	The requirements do not  - while the personal mus an external amplifier; o  - while the headphones used.  NOTE 2 An external amplifier i of the personal music player or	sic player is conne or or earphones are is an amplifier which is	not not part	at lat	
7 7	is intended to play the music a  The requirements do not  hearing aid equipment equipment;  NOTE 3 Professional equipme	s a standalone music t apply to: and professional	player.	and such	AND AND
- Zi	special sales channels. All pro- electronics stores are consider equipment.	ducts sold through nor	mal	AL AL	4 4 4 A
* ************************************	- analogue personal music players without a processing of the soun to the market before the NOTE 4 This exemption has be technology is falling out of use few years it will no longer exist extended to other technologies.	any kind of digital and signal) that are the end of 2015.  een allowed because to and it is expected that to this exemption will not be a second to the exemption will not be and it is exemption will not be a second to the	brought this		AIR AIR
+ 2	For equipment which is of intended for use by your EN 71-1 apply.			of of	4 4 A



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	IEC/EN 60950-1	eport No. S19090402	2201001	- ·
Clause	Requirment + Test	Result + Remark	.0	Verdict
2	2 2 2 2 2	7, 7,	2	5 .
d 0	Zx.2 Equipment requirements  No safety provision is required for equipment that	(See appended table	e Zx.2)	P
3, 3,	complies with the following:	7, 7,	21	<u>.</u>
* ^	<ul> <li>equipment provided as a package (personal music player with its listening device), where</li> </ul>	* * *	*	*
- 14	the acoustic output L <sub>Aeq,⊤</sub> is ≤ 85 dBA measured		1	14
. 4	while playing the fixed "programme simulation	4 4	4	4 .
0 0	noise" as described in EN 50332-1; and – a personal music player provided with an		4	4
3	analogue electrical output socket for a listening	3' 3'		3
L.	device, where the electrical output is ≤ 27 mV	L L L	L	
Q Q	measured as described in EN 50332-2, while playing the fixed "programme simulation noise"		10	10
7.	as described in EN 50332-1.	7, 7,		Z .
+ 1	NOTE 1 Wherever the term acoustic output is used in this	* * *	+	t
A TA	clause, the 30 s A-weighted equivalent sound pressure level LAEQ,T is meant. See also Zx.5 and Annex Zx.		3-47	199
4	All other equipment shall:	4 4	7	4
0	a) protect the user from unintentional acoustic	* * *	1	4
	outputs exceeding those mentioned above; and	1 11 11	11/1	1
	b) have a standard acoustic output level not	7 7	7	
05 0	exceeding those mentioned above, and automatically return to an output level not	* * *	0	0
1	exceeding those mentioned above when the	11 11	11	1
	power is switched off; and	7 7	4	7
1 0	power to existing on, and	* * *	1	1
9//			2//	3//

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IEC/EN 60950-1				
ause 🥢	Requirment + Test	Result + Remark	Verdid	
7	5 5 5 5	5 5 5 5 5	7	
	c) provide a means to actively inform	n the user of		
	the increased sound pressure wh	nen the	4	
11	equipment is operated with an acc		4	
4	exceeding those mentioned			
- ^		wledged by	- 4	
	the user before activating a mod		- 47	
	which allows for an acoustic out			
	those mentioned above. The ack			
- 1	does not need to be repeated mo			
	every 20 h of cumulative lister			
	NOTE 2 Examples of means include visual of			
	Action from the user is always required.	L L		
4	NOTE 3 The 20 h listening time is the accum			
11	time, independent how often and how long th	e personal music	1	
7	player has been switched off.	2 and P P P		
- ,	d) have a warning as specified in Zx	a.s; and	- 4	
. 4	e) not exceed the following:			
	1) equipment provided as a packa		4	
	with Its listening device), the acou			
- /	shall be ≤ 100 dBA measured wh		- X	
100	fixed "programme simulation nois	e" described	1 CA	
	in EN 50332-1; and	7, 7, 7, 7, 7,	7	
	a personal music player provid		1	
	analogue electrical output socket			
15	device, the electrical output shall		4	
4	measured as described in EN 503	332-2, while		
_ ,	playing the fixed "programme sim	ulation noise"	- 4	
. 4	described in EN 50332-1.			
1			1	
	For music where the average sound			
	(long term LAeq,T) measured over the		- 4	
1	the song is lower than the average p		14	
7	the programme simulation noise, the		7.	
	does not need to be given as long a		1	
- 0	sound pressure of the song is below			
	of 85 dBA. In this case T becomes t	he duration of		
	the song.	7 7 7 7 7	7	
	NOTE 4 Classical music typically has an aver	rage sound		
4	pressure (long term LAeq,T) which is much low average programme simulation noise. Theref			
4	is capable to analyse the song and compare		4	
	programme simulation noise, the warning doe			
- ^	given as long as the average sound pressure		- 1	
100	below the basic limit of 85 dBA.	W W W W	1	
7	For example, if the player is set with the prog		3	
	noise to 85 dBA, but the average music level only 65 dBA, there is no need to give a warni	ng or ask an	1	
- 0	acknowledgement as long as the average so		7	
100	song is not above the basic limit of 85 dBA.		2	



1	IEC/EN 60950-1	4 4 4	7 ,
Clause	Requirment + Test	Result + Remark	Verdict
5	5, 5, 5, 5, 5, 5,	4. 4. 4.	2 5
	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:		P. L.
AT 350	"To prevent possible hearing damage, do not listen at high volume levels for long periods."	AND AND AND	Zille .
at sia		THE SHIP SHIP	ALIENT S
A SA	<u> </u>	THE THE THE	ALIENT .
at so	Figure 1 – Warning label (IEC 60417-6044)	Tarit suit suit	Sint.
at sa	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.	- And And And	S. C.
1	Zx.4 Requirements for listening devices (headp	hones and earphones)	N
	Zx.4.1 Wired listening devices with analogue input With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV.		A. N
at all	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).	- 410t 410t 410t	A STATE OF THE STA
	NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.		S. C.



	IEC/EN 609	50-1	7
Clause	Requirment + Test	Result + Remark	Verdict
. 2	Zx.4.2 Wired listening devices with digit		N
0 ,0	input		
7.	With any playing device playing the fixed	4 4 4	7
+ 1	"programme simulation noise" described in 50332-1 (and respecting the digital interface		- 4
0 10	standards, where a digital interface standa	rd 💉 🥂	1
4	exists that specifies the equivalent acoustic		7
0 0	the acoustic output L <sub>Aeq, T</sub> of the listening de shall be ≤ 100 dBA.	evice	- 4
	This requirement is applicable in any mode	where	3
4	the headphones can operate, including any		- 4
9	available setting (for example built-in volun		100
5	control, additional sound feature like equal etc.).	ization,	4
ot o	NOTE An example of a wired listening device with dig	uital input	- 4
Y 311	is a USB headphone.		
_	Zx.4.3 Wireless listening devices In wireless mode:		N
OF 10	<ul> <li>with any playing and transmitting device</li> </ul>	plaving	-
7	the fixed programme simulation noise de in EN 50332-1; and		5
T 2	- respecting the wireless transmission star		-
7.	where an air interface standard exists the specifies the equivalent acoustic level; a		7
+ 1	with volume and sound settings in the list		- 1
4 14	device (for example built-in volume level		1
7	additional sound feature like equalization set to the combination of positions that	, etc.)	7
0 .0	maximize the measured acoustic output		- 4
7	abovementioned programme simulation the acoustic output LAeq,T of the listening		3
of a	shall be ≤ 100 dBA.	device	- ot
7	NOTE An example of a wireless listening device is a headphone.	Bluetooth	7,1
0	Zx.5 Measurement methods	t at at a	N
7,	Measurements shall be made in accordance EN 50332-1 or EN 50332-2 as applicable.	ce with	3
et o	Unless stated otherwise, the time interval be 30 s.	「shall	- at
- 3	NOTE Test method for wireless equipment provided listening device should be defined.	without	3



1	IEC/EN 6	0950-1			
Clause	Requirment + Test	4	Result + Remark	10	Verdic
2.7.1	Replace the subclause as follows: Basic requirements	d .0	+	- Ct	N
ot side	To protect against excessive current, shand earth faults in PRIMARY CIRCUITS protective devices shall be included eith integral parts of the equipment or as pabuilding installation, subject to the followand c):	S, ner as rts of the ving, a), b)	+ 10t 10t	Sigt .	
ot 10	a) except as detailed in b) and c), protected devices necessary to comply with the requirements of 5.3 shall be included as the equipment;	s parts of		A COL	S. Cot
2 310	b) for components in series with the ma the equipment such as the supply cord, coupler, r.f.i. filter and switch, short-circ earth fault protection may be provided by protective devices in the building installa	appliance uit and	Faith aith	Ziet ,	S. Cot
	c) it is permitted for PLUGGABLE EQUITYPE B or PERMANENTLY CONNECT EQUIPMENT, to rely on dedicated over and short-circuit protection in the buildir installation, provided that the means of e.g. fuses or circuit breakers, is fully spetthe installation instructions.	rED current ng protection,	t with with	Aint .	S. C.
	If reliance is placed on protection in the installation, the installation instructions state, except that for PLUGGABLE EQUITYPE A the building installation shall be as providing protection in accordance wrating of the wall socket outlet.	shall so JIPMENT e regarded		Silot .	A COT
2.7.2	This subclause has been declared 'void	'+ '	+ + +	+	N
3.2.3	Delete the NOTE in Table 3A, and delet this table the conduit sizes in parenthes				N
3.2.5.1	Replace "60245 IEC 53" by "H05 R "60227 IEC 52" by "H03 V H03 VVH2-F"; "60227 IEC 53" by "H05 V H05 VVH2-F2".	V-F or	t set set	int.	S. C.
7	In Table 3B, replace the first four lines be following:		4, 4,	<u> </u>	<u>.</u> L
	Up to and including 6   Over 6 up to and including 10  (0,75) b)   Over 10 up to and including 16  (1,0) c) 1,5   In the conditions applicable to Table 3B words "in some countries" in condition	delete the	t with with	Sill .	3.01
ot o	In NOTE 1, applicable to Table 3B, dele second sentence.		t at at	at	d



, ,	IEC/EN 60950-1	4 4 4	
Clause	Requirment + Test	Result + Remark	Verdict
-	7. 7. 7. 7. 7. 7.	5 5 5	7.
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:  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	* 41th 41th 41th	N. 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 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).		The tart to
et ziet	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	t suit suit suit	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.		ZON TO TO
Bibliography	Additional EN standards.	2 2 2	<u> </u>
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of the	ZB ANNEX (normative SPECIAL NATIONAL CONDITIONAL CONDI	J7 .07 .07 .07	A CONTRACTOR OF THE PARTY OF TH
Clause	Requirement + Test	Result - Remark	Verdict
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 (A11:2009)	In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.7.2.1 and 7.3 of this annex.		N
1.5.7.1 (A11:2009)	In <b>Finland, Norway</b> and <b>Sweden</b> , 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	t such such such	N_
ot of	resistor is used, the resistor must withstand the resistor test in 1.5.7.2.	t at at at	at



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	IEC/EN 60950-1						
Clause	Requirment + Test	Result + Remark	Verdict				
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0	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)						
Clause	Requirement + Test	Result - Remark	Verdict				
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. 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				
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Clause	Requirment + Test	Result + Remark	Verdict

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test	Result - Remark	Verdict	
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.		act and	
7	The marking text in the applicable countries shall be as follows:	4 4 4	4	
0 10	In <b>Finland</b> : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"		10	
* 4	In <b>Norway</b> : "Apparatet må tilkoples jordet stikkontakt"	4 7 7 7	* *	
214	In <b>Sweden</b> : "Apparaten skall anslutas till jordat uttag"		3.00	
1.7.2.1 (A11:2009)	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.		AL AL	
	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.		at at	
at Ja	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:			
at Tab	"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		at lat	
at Zid	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	*	act such	
at Ala	providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."	Trick sich s	ALL SIGH	



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Clause	Requirment + Test	Result + Remark	Verdict

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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):		N. S.
at sid	"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."	of such such such	A LINE
	Translation to Swedish: "Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV		Z.C.
	nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."		NOT.
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.	t with with with	N
at Aid	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."	A 210 210 210	N. C.
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.		A STATE OF THE STA
1.7.5 (A11:2009)	For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.	4 4 4	3



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Clause	Requirment + Test	Result + Remark	Verdict

at at	ZB ANNEX (normative) SPECIAL NATIONAL CONDITION		and the
Clause	Requirement + Test	Result - Remark	Verdict
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		N. N.
at int	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	+ 2+ 2+ 2+ 2+	And the
/	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		
ot of	DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b. Justification the Heavy Current Regulations, 6c	+	21.V
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.	7 7 7	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.	F AND AND AND	ST. 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.	2 4 4	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	7 10 7 10 10 10 10 10 10 10 10 10 10 10 10 10	N
at with	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	T AND AND AND	NICH S
4	parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.		100
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.	大品本品	N
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:	+ 21th 21th 21th	N
at part	SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A		Sept .



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Clause	Requirment + Test		Result + Remark	4	Verdict

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Clause	Requirement + Test	Result - Remark	Verdict
	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		Will the training to
	SEV 5932-2.1998. Plug Type 23 , 3L+N+PE 230/400 V, 16 A  SEV 5933-2.1998: Plug Type 21, L+N, 250 V, 16A  SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A		Night Night
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.  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	t at at at	2 4 4 4 4 4 4



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Clause	Requirment + Test	Result + Remark	Verdict

at at	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)					
Clause	Requirement + Test	Result - Remark	Verdict			
3.2.1.1 (A2:2013)	In <b>Denmark</b> , supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-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. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Justification the Heavy Current Regulations, 6c		No. of the state o			
3,2.1.1	In <b>Spain</b> , 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.  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.		N to the total to			
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 N N N N N N N N N N N N N N N N N N			



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Clause	Requirment + Test	Result + Remark	Verdict

d 10	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONAL		and the
Clause	Requirement + Test	Result - Remark	Verdict
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.		THE THE THE
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 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:  • 1,25 mm² to 1,5 mm² nominal cross-sectional area.		z ta ta
4.3.6	In the <b>United Kingdom</b> , 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.		Z the the train of
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.	Considered when assessed to the national standard.	Ariot .



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Q Q	SPECIAL NATIONAL CONDITIONS (EN)					
Clause	Requirement + Test	Result - Remark	Verdict			
5.1.7.1	In Finland, Norway and Sweden TOUCH	* * * * *	N			
3 3"	CURRENT measurement results exceeding 3,5	311 311 311	317			
L .	mA r.m.s. are permitted only for the following equipment:					
Q Q	STATIONARY PLUGGABLE EQUIPMENT					
4. 4.	TYPE A that	4. 4. 4.	5.			
d 0	is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential	* * * *	4			
	bonding has been applied, for example, in a	311 311 311				
4	telecommunication centre; and has provision for a permanently connected		- "			
0 0	PROTECTIVE EARTHING CONDUCTOR; and		10			
4. 4.	is provided with instructions for the	4. 4. 4.	5			
0 0	installation of that conductor by a SERVICE PERSON;	* * * * *	- ot			
3 30	• STATIONARY PLUGGABLE EQUIPMENT	21 21 21	300			
* · ·	TYPE B;	+ + + +	- 1			
10 10	• STATIONARY PERMANENTLY CONNECTED EQUIPMENT.		19			
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Clause	Requirment + Test	-0	A A I	Result + Remark	10	Verdict

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Clause	Requirement + Test	Result - Remark	Verdict
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:		N
at said	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	et great great great	A. C.
at sat	<ul> <li>two layers of thin sheet material, each of which shall pass the electric strength test below, or</li> </ul>	of soft soft soft	Silt.
at just	- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	t sat sat sat	A STATE OF THE STA
at The	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	t gift gift gift	A DE
A 200	component passes the electric strength test in accordance with the compliance clause below and in addition	THE SHE SHE	A. C.
at sid	- 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	THE SHALL SHALL	No.
at the	<ul> <li>2.10.10 shall be performed using 1,5 kV), and</li> <li>is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul>	t siet siet siet	THE T

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Clause	Requirment + Test	Result + Remark	Verdict

at at	ZB ANNEX (normative) SPECIAL NATIONAL CONDITION		and the
Clause	Requirement + Test	Result - Remark	Verdict
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).		N
at with	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	t with with with	S.C.
at said	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	THE THE THE	Sill .
A AND	- 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;	t of a state	And the
	- the additional testing shall be performed on all the test specimens as described in EN 60384-14:		Zill .
4 .0	- 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.		Si di
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	+ 1:0+ 1:0+ 1:0+ - 2:	N .
at which	equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is	t with with with	A THE
	provided with instructions for the installation of that conductor by a SERVICE PERSON.		100
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.	t gift gift gift	N
at at	The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.		and the
7.3 (A11:2009)	In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	+ 4 4 4	N



Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity <sup>1</sup> )
Power Adapter(EU Plug)	SHENZHEN GUANGYUANSHE NG TECHNOLOGY CO.,LTD	Y-853C-5010	Input: 100-240V~, 50/60Hz, 0.15A Output: 5VDC1.0A, ta: 40°C	EN 60950	LCS test report no.: LCS19091607 3AS
Power Adapter(UK Plug)	SHENZHEN GUANGYUANSHE NG TECHNOLOGY CO.,LTD	Y-853C-5010	Input: 100-240V~, 50/60Hz, 0.15A Output: 5VDC1.0A, ta: 25°C	EN 60950	LCS test report no.: LCS19112514 7AS
Li-ion Battery	SHENZHEN ZHPNGNUOTONG CHUANG TECHNOLOGY CO.,LTD	INOI 2/2 Lite 2019	3.8V, 2250mAh, 8.55Wh	IEC/EN 62133- 2: 2017	LCS test report no.: LCS19112514 6AS
Flash LED	Everlight Electronics Co., Ltd.	ELCH Series	DC350mA, Risk Group 1 (EN 62471) Exempt Group (IEC 62471)	IEC 62471: 2006 EN 62471: 2008	TUVRheinland Report No.: 10031507 001
LCD screen	Superview	G397APA885 A1(GA3228) Version V00	3.97 ", 0.108(W) x 0.108 (L)mm	EN 60950-1	Tested with appliance
Speaker	Shenzhen huayinkai electronics co. LTD	X31140326- 0001	80hm, 0.7W	EN 60950-1	Tested with appliance
Vibration motor	Hubei kailong mechanical electronics co. LTD	F240	DC3V, 80mA max.	EN 60950-1	Tested with appliance
PCB	TONGYUAN TECHNOLOGY HUIZHOU CO LTD	TY-11	V-1, 130°C	UL 796	UL E486376
4 4	Various	Various	V-1 or better, min. 130°C	UL 796	UL 👌
Plastic enclosure	SHENZHEN HALCYON NEW MATERIALS CO LTD	PC201 VG- 20R (a)	V-0, 80°C	UL 94	UL E233919

I rated (A)	P (W)	Fuse #	I fuse	Condition (status
		1 455 //	(A)	Condition/status
4 1 4 1 A	4.96	7	\$10T <	Charged by external power supply with fully discharged battery and normal operation.
Fé	1 favorable cond	4 4 4	1 4.96 favorable condition was considered.	4 4 4 4 4



2.1.1.5 c) 1)	TABLE: max	. V, A, VA test	AT A	95 JO	10	10	AT AN
Voltage	e (rated) V)	Current (rated) (A)	Voltage (V		Current (max.) (A)		VA (max.) (VA)
4	-2 3		\$ 2		£ .		-3
2.1.1.5 c) 2	) TABLE: stor	red energy	<u></u>	لم حلم			N
Capacita	nce C (µF)	Volta	ige U (V)			Energy E (	J)
7 0	- 4	OF .OF	-0	45 4	- 45	.O	J. J.
supplement	tary information	:					
2.2.2	TARI E: Haza	rdous voltage	moseuromo	or o	- 4	0	d A
Transforme		Location	measureme	max. Vo	oltage	Voltage	Limitation
Transionne	'	Location		/ peak	V d.c.	Compo	
_ 3	3 3		3 3		<u> </u>	<u> </u>	3
L 1	- 1	A- A-	4	N- N	_ ' .L '	4	4
2.2.3	TABLE: SELV	V voltage meas	surement	4 10	10	10 1	N N
Location		Volta	ge measured	d (V) Com	ments		
1 0	<u> </u>	0 0	· C-	0 0	- 45	A.	0 0
2	2 4	2	2 4	2	2,	2. 5	2
2.4.2	TABLE: limit	ed current circ	uit measure	ment	- xt	*	* *
Location		Voltage (V)	Current (mA)	Freq. (kHz)	Limit (mA)	Comments	
* 4	A .		<i>A</i> .	0 - D		- 4	J J
2.5	TARI E: Limi	ted power sou	rcoe		2 .	5 5	L N
<del>Y - 67</del>	67	teu power sou	irces	<del>\( \)</del>		A-	<del>*************************************</del>
Circuit outp	ured Uoc (V) w	ith all load circu	iite dieconno	octed:	4		
Compone	Sample No.	Uoc (V)	ins disconne				VA
nts	Campio 110.	333 (1)	N4 = -	I <sub>sc</sub> (A)	imit		
Normal		* *	Meas	AI— AI		Meas.	Limit 100
Single	Z'. Z	<u> </u>	2 2	Y	8	<u> </u>	100
fault	· *	+ +	*	4	- 1	*	* *
supplement	tary information	:			_		
2.10.2	Table: working	ng voltage me	asurement	A 1	- 1	4	N
		29 247	voltage (V)	Peak volta	ge (V) Comi	ments	
Location							
Location	- 4	* *		x - 1	- 4	1	* *



2.10.3 and 2.10.4	TABLE: Clearan	TABLE: Clearance and creepage distance measurements								
Clearance (c	l) and creepage	U peak	U r.m.s.	Required cl	cl	Required cr	cr			
distance (cr)	at/of/between:	(V)	(V)	(mm)	(mm)	(mm)	(mm)			
* *	-+ +	*	4	* - *	*	4- A	- *			

2.10.5	TABLE: Distance through	₹N ₹				
Distance that/of:	nrough insulation (DTI)	U peak	U rms	Test voltage	Required DTI	DTI
		(V)	(V)	(V)	(mm)	(mm)
0 0		.4	A 1	-	A - A	
Supplemer	ntary information:	4 4	1	4	4. 4.	4 4

4.3.8	TABLE:	Batteries							Р
The tests of data is not		applicable	only when ap	propriate	battery	- 0+	Tot-	4	- CT
Is it possib	le to install	I the batter	y in a reverse	polarity po	sition?	No possib	<u> </u>		
J- N	Non-re	chargeable	e batteries		Г	Rechargeal	ble batteri	es	
7 10	Disch	arging	Un-	Chargi	ng(mA)	Discharg	ging(mA)	Reverse	d charging
4 4	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal	7	* * * * * * * * * * * * * * * * * * *	110 - 11°	968	2250	839	2250	- t	*** *
condition	31"	310	31° 31°	3.00	2110	2110	310		3° 2
Max. current during fault condition	710	The state of the s	AL ALL	981	2250	852	2250	41.0t	Sitt of
Test result	s:	-44	10 10	7 (4)	- 44	147	14	14	Verdict
- Chemical	_	7	7 7	-			7	7	P
- Explosion	n of the bat	tery	19	14	197	Р			
- Emission	of flame o	r expulsion	of molten me	tal	7	4	4	4	P
- Electric s	trength tes	ts of equip	ment after con	npletion of	tests	4	-47	-0	N
Supplemen	ntary inforn	nation:	4. 4.	4	4	4.	4	4	4

4.3.13.5		nission lim ective 200		k groups of continuous wave lamps (based on EU N						
Diek	Action	Cumbal	Linito		ent					
Risk	spectrum	Symbol	Units	Exempt Low risk Mod risk						



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4.3.13.5		ission limective 200		groups of	continue	ous wave la	amps (bas	ed on EU	, CN
				Limit	Result	Limit	Result	Limit	Result
Actinic UV	Sυν <b>(λ)</b>	Es	W•m⁻²	0,001	(V.	0.003		0.03	-
Near UV	- 4	Euva	W•m⁻²	10	*	33		100	-
Blue light	B(λ)	LB	W•m-2•sr- 1	100		10000	- A	4000000	7.00
Blue light, small source	Β(λ)	Ев	W•m⁻²	1.0*	E .	1,0	AT AN	400	A. C.
Retinal thermal	R(λ)	LR	W•m-2•sr- 1	28000/α		28000/α	4	71000/a	10
Retinal thermal, weak visual stimulus**	R(A)	Lir	W•m-2•sr-	6000/α	A.	6000/α	At 2	6000/α	- At
IR radiation, eye	- "C+	E <sub>IR</sub>	W•m⁻²	100	et .	570		3200	ct

Small source defined as one with  $\alpha$  < 0,011 radian. Averaging field of view at 10000 s is 0,1 radian. Involves evaluation of non-GLS source



4.5	TABLE: Thermal requ	irements	4	1	05 0	大	0	- 4	P
7	Supply voltage(V)	. 4	Charg	ing	Dischargi	ng	_		
Maximum measured temperature T of part/at:			T (°C) T (°C)			Allowed Tmax (°C)			
PCB ne	ear U1	, 4	49.	0	45.5			130	
Battery	body	4	41.	0	39.8	7	.0	Ref	4
Enclosi	ure inside near U1		43.	3	39.4		80		
Enclos	ure outside near U1	大	41.	8	37.4	*	^	75	*
Button	" <u> </u>	3	36.	8	34.8	4	S.V	75	7,0
Screen	at at at	at.	41.	3	38.0	4		65	- 1
Adapte	7 19 19	19	44.1		9	95		10	
Ambien	nt 7 7	. 4	25.	0	25.0			7	7
Remark	κ: The most unfavorable o	ondition w	as consid	ered.	4	7	.4	- 4	4
Tem	perature T of winding:	t1 (°C)	R1 (Ω)	t2 (°C)	R2 (Ω)	T (°C	;)	Allowed Tmax (°C)	Insulation class
1	1 1 1 1	· · ·	· 1	4	(		1	1	1/1

4.5.2	TABLE: ball pressure test of thermoplastic pa	N.	
2	allowed impression diameter (mm)	≤ 2 mm	5
Part		Test temperature (°C)	Impression diameter (mm)
E .			, L- ,L

4.7	TABLE:	Resistan	ce to fire	2	-31	-	7	7	-	P .	
Part und	der test	Test tem	est temperature (°C)					Result			
- 3	7,6	31	31	3	21	7.	7/1	31	-51	3	
Note: see	table 1.5.1	- 4	- AL	- 1	- 4		- 4	- 4	- 4	- 1	

5.1	TABLE: touch	current measurem	4 4	N -	
Condition		L→ terminal A (mA)	N → terminal A (mA)	Limit (mA)	Comments
E A	- 4	L 1 1	- A= A	- 1	AL - AL

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests						₹ N	-			
Test voltage applied between:					Test voltage (V)		Breakdown				
31	3	31	2	31	7,0	3	3	30	3	21	-
Note: Test	voltage a.	.c. <del>/d.c.</del>	*	- 1	- 4	-	* *	- 1	*	*	



5.3	.0	TABLE	E: Fault cond	lition tests	Ø .0			
-	3,	ambier	nt temperatur	e (°C)		<u>\$</u>	25.0°C	4 4 -
F	4	model/	type of powe	r supply	<u> </u>	:	* *	· d d -
	3	manufa	acture <mark>r</mark> of pov	ver supply		<u>.</u>	- 3	3" 3" -
-	*	rated r	narkings of p	ower supply	<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	:	* *	· * * -
No.	Comp	onent	Fault	Test vol- tage (V)	Test time	Fuse no.	Fuse current (A)	Result
1	Batter	ry (+,-)	S-C	5Vdc	10min		d 0	After SC, battery no fire, no explosion and no leakage, n hazard.
2	batter	on y pack	S-C	5Vdc	10min		t at	After SC Unit shut down No damaged components and hazard were found.
3	batter	on y pack	S-C	5Vdc	7h		et <u>T</u> et	Unit is normal working. No damaged components and hazard were found.
4	Bat	tery	Over charge	5Vdc	7h	- '	et Just	Unit is normal working. No damaged components and hazard were found.
5		ery (B- P-	S-C (Over charge)	5Vdc	7h	- 1	at Triat	Unit is normal working. No damaged components and hazard were found.
6		(pin1- 5.7)	S-C (Over charge)	5Vdc	7h		at <u>i</u> ndt	Unit is normal working. No damaged components and hazard were found.
7	batter	on y pack	S-C	Fully battery	10min		et Jet	After SC Unit shut down No damaged components and hazard were found.
8		on y pack	S-C	Fully battery	7h	- 1	\$ <b>.</b> \$	Unit is normal working. No damaged components and hazard were found.
9	Bat	tery	Over discharge	Fully battery	7h		ot at	Unit is normal working. No damaged components and hazard were found.
10		ery (B- P-	S-C (Over discharge)	Fully battery	7h	5	at at	Unit is normal working. No damaged components and hazard were found.
11	Spe	aker	S-C	Fully battery	10min	- 42	4 ×	Unit without voice no damaç no hazard.
12	Vibr	ation	Blocked	3.0	7h	-31	3.00	No high temperature rise no hazard.

Zx.2 TABLE: Measured maximum output voltage	At At	AL NAL
Measured maximum output voltage Vm (mV)	Test	duration



Left channel		Right channel									
4	4-	4	4	4	- 'A	4	4	7	30s	4	-
Requirem	nent: ≤150	0mV.		0		.0	1	.0		- 4	

Measured maximum ou	tput voltage Vm	(mV)		Task domakian		
Left chann	el	Right channel		Test duration		
21° 21°	11 11 11 11 11 11 11 11 11 11 11 11 11	21° 21° 21°	3	30s	- T	

Zx.2 TABLE: Measured	* * *N **			
No of management	Measured L <sub>Aeq</sub> (dB (A	Took dispation		
No. of measurement	Left channel	Right channel	Test duration	
Average value		<u> </u>	30s	
Requirement: The L <sub>Aeq</sub> is no	t more than 100dB(A).	+ * *	* * *	

Zx.2	TABLE: Measure appeared)	4 4 4 4 5		
No. a		Measured L <sub>Aeq</sub> (dB (	Test duration	
No. of measurement		Left channel		
A	verage value	· zi -zi zi		30s
Require	ement: The L <sub>Aeq</sub> is r	not more than 85dB(A).	+ 4 4	4 4 4





#### Attachment 1

# Maximum sound pressure test Test specification Standard EN 50332-2:2013 TEST DESCRIPTION

## Maximum sound pressure Measurement Measurement Method

The method of measurement was described in the order related to the limitation of the maximum output voltage level at the phone jack delivered by the EUT, in accordance with sub-clause 5.2 of EN 50332-2:2013.

- **a.** The test signal used was a programme simulation noise in accordance with clause 5 of EN 50332-1:2013.
- **b.** The player phone output was loaded with a resistive load of  $32\Omega$  during the measurement.
- C. During the measurement, all controls were adjusted to produce the maximum output voltage level at the phone output.
- d. The sum of then maximum wide band output voltage was measured.

#### **Measurement Results**

Measurement results showed the maximum RMS voltage for each third-octave frequency bandwidth and the sum of RMS voltage of the output.



#### **Attachment 2**

# Maximum sound pressure test Test specification Standard EN 50332-1:2013 TEST DESCRIPTION

### Maximum sound pressure Measurement Measurement Method

The device under test (DUT) plays the recorded test signal. Earphones or headphones shall be correctly positioned on the HATS. The sound pressure level emitted by the earphones or headphones of the portable audio equipment is measured, for both right and left ear, by a third octave analyzer connected to the microphone of the HATS ear simulator.

The A-weighting curve is applied

Tests are repeated five times for each ear, and the headphone shall be removed and repositioned before each measurement

The A-weighted equivalent continuous sound pressure level  $L_{Aeq}$  shall be determined for each measurement, using an averaging time of 30s or more

The maximum sound pressure level considered as the test result is the mean value of all L<sub>Aeq</sub> measurements.



### **ATTACHMENT 3-PHOTOS**



Fig.1



Fig.2





Fig.3



Fig.4



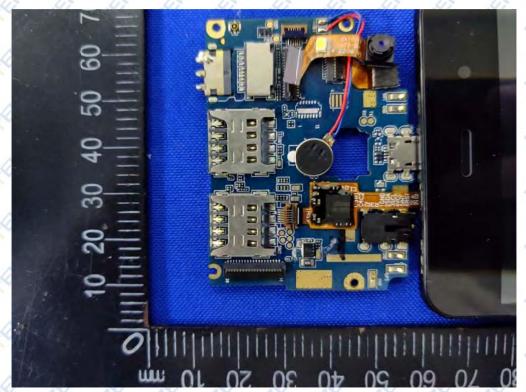


Fig.5

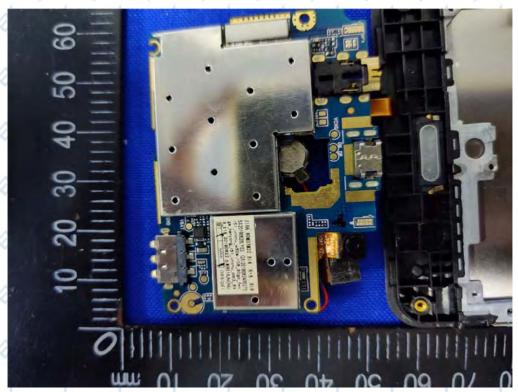


Fig.6





Fig.7



Fig.8

\*\*\*END OF REPORT\*\*\*