APPLICATION REPORT

On Behalf of

Smart Watch

Test Model: DW-007Fit+

Additional Model(s):DW-009Fit+, DW-010Fit+, DW-011Fit+, DW-012Fit+,

DW-013Fit+

Prepared For :

Prepared By : Shenzhen LCS Compliance Testing Laboratory Ltd.

1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an

District, Shenzhen, Guangdong, China

Date of Test : May 19, 2016 - June 16, 2016

Date of Report : June 16, 2016

Report Number : LCS1605191744S

TEST REPORT

EN 60950-1

Information technology equipment - Safety -

Best Best	Part 1: General requirements
Report reference No	(2) (2) (3)
	Peter Zhang
Compiled by (+ signature):	Peter Zhang
	Hart Oiu Hut Usi
Approved by (+ signature)	Truit Qiu
Date of issue	June 16, 2016
Contents	53 pages
Testing laboratory	
Name:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address:	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an
	District, Shenzhen, Guangdong, China
Testing location	Same as above
Client	
Name:	
Address	
23 23	33 33 33
Test specification standard:	IEC 60950-1: 2005+A1: 2009+A2: 2013;
	EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013
Test procedure:	Compliance with IEC 60950-1: 2005+A1: 2009+A2: 2013;
	EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013
Non-standard test method	N/A
Test item description	Smart Watch
Trademark:	N/A
	Test Model: DW-007Fit+
Model and/or type reference:	Additional Model(s):DW-009Fit+, DW-010Fit+, DW-011Fit+,
	DW-012Fit+, DW-013Fit+
Manufacturer:	
Address:	
Bur () Best	Input: 5V=-, 3.0A;
Rating(s)	Fan Datter :: 0.7\/— 400Ab

Test item particulars	
Equipment mobility	[] movable [] hand-held [X] transportable
23 23	[] stationary [] for building-in [] direct plug-in
Connection to the mains.	[] pluggable equipment
3 63 63	[] permanent connection
S CS CS	[] detachable power supply cord
(65) (65)	[] non-detachable power supply cord
(63) (63)	[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)	
Res Res	[X] other:
Mains supply tolerance (%) or absolute mains supply	Not connect to mains
values	
Tested for IT power systems	[] Yes [X] No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	
163 163 163	classified
Considered current rating (A)	N/A
Pollution degree (PD)	
IP protection class	IPX0
Altitude during operation (m)	Not over 2000m
Altitude of test laboratory (m)	Not over 2000m
Mass of equipment (kg)	: Approx. 0.063kg(without accessories)
Test case verdicts	
Test case does not apply to the test object	N(N/A)
Test item does meet the requirement	.: P(Pass)
Test item does not meet the requirement	: F(Fail)
Testing	
Date of receipt of test item	: May 19, 2016
Date(s) of performance of test	.: May 19, 2016 – June 16, 2016

Version: V1.0 Page 2 of 53

General remarks

Modified Information

Version	Report No.	Revision Data	Summary
V1.0	LCS1605191744S	13.03	Original Version

This test report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item tested.

"(see remark #)" refers to a remark appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

Remark

1. The test report includes:

Part 1: IEC 60950-1: 2005+A1: 2009+A2: 2013

Part 2: Attachment 1- National Differences for EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013.

0.44

- 2. Attachment 2: 5 pages of product photos.
- Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.
- 4. The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of 45°C.
- 5. All models are the same except their model names and color. And all test conducted on DW-007Fit+.

Copy of marking plate (s):

Smart Watch

Model: DW-007Fit+

5V-, 3.0A

For Battery: 3.7V-, 100mAh



Made In China

Version: V1.0 Page 3 of 53

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
(PR	350 350 350	(2)	63
1	GENERAL	3	Р
1.5	Components	3	P
1.5.1	General	3 33	Р
"GS	Comply with IEC 60950-1 or relevant component standard	(see appended tables 1.5.1)	P
1.5.2	Evaluation and testing of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	P S S S S S S S S S S S S S S S S S S S
1.5.3	Thermal controls	No thermal controls.	N
1.5.4	Transformers	No Transformers	N
1.5.5	Interconnecting cables	35 625	Р
1.5.6	Capacitors bridging insulation	28	Ν
1.5.7	Resistors bridging insulation	5-38 5-38	N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	NES NES	N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	162 PC2	N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	LES L	N
1.5.8	Components in equipment for IT power distribution systems	Les I	N
1.5.9	Surge suppressors	S 7, 25	N
1.5.9.1	General	25 25	N
1.5.9.2	Protection of VDRs	38 538	Ν
1.5.9.3	Bridging of functional insulation by a VDR	Ban Ban	N
1.5.9.4	Bridging of basic insulation by a VDR	1,60	N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	(S) (S)	N
1.6	Power interface	ucs no	P
1.6.1	AC power distribution systems	130	N
1.6.2	Input current	See the table 1.6.2	P
1.6.3	Voltage limit of hand-held equipment	This appliance is not hand-held equipment.	N
1.6.4	Neutral conductor		N

Version: V1.0 Page 4 of 53

	IEC 60950-1	Bo Bo	
Clause	Requirement + Test	Result - Remark	Verdic
	1.50 160 160	0.65	25
1.7	Marking and instructions	23	Р
1.7.1	Power rating and identification markings	See below	Р
1.7.1.1	Power rating marking	3 BS	Р
Back	Multiple mains supply connections	Single power source	N
Bee	Rated voltage(s) or voltage range(s) (V)	5V	Р
	Symbol for nature of supply, for d.c. only:	-c3 ~c3	Р
116	Rated frequency or rated frequency range (Hz):	(25)	N
~	Rated current (mA or A):	3.0A	Р
1.7.1.2	Identification markings	Bar Bar	Р
	Manufacturer's name or trade-mark or identification mark	See copy of marking plate	Р
>	Model identification or type reference:	25	P
35	Symbol for Class II equipment only:	Class III	N
(25)	Other markings and symbols	Additional symbol or marking	N
	Outer markings and symbols	does not give rise to misunderstanding.	BE
1.7.1.3	Use of graphical symbols	modificationing.	N
1.7.2	Safety instructions and marking	English version provided.	Р
	es les les	(Version in other language will be provided when submitted for national approval)	
1.7.2.1	General	0.00	P
1.7.2.2	Disconnect devices	(8)	N
1.7.2.3	Overcurrent protective device	Not such equipment.	N
1.7.2.4	IT power distribution systems	\$ 0 ag	N
1.7.2.5	Operator access with a tool	No operator accessible area that needs to be accessed by the use of a tool.	N
1.7.2.6	Ozone	Not such equipment.	N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N
1.7.4	Supply voltage adjustment:	No voltage selector.	N
	Methods and means of adjustment; reference to	110 Vollago dollottor.	N
	installation instructions:	083	3
1.7.5	Power outlets on the equipment:	5.25	N
1.7.6	Fuse identification (marking, special fusing	333	N
255	characteristics, cross-reference)	Bee	Resi
1.7.7	Wiring terminals	See below.	N
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment.	N
1.7.7.2	Terminals for a.c. mains supply conductors	No terminals used	N

Version: V1.0 Page 5 of 53

Clause	Requirement + Test	Result - Remark	Verdic
Olause	requirement i rest	Nesult Neman	Verdic
1.7.7.3	Terminals for d.c. mains supply conductors	33	N
1.7.8	Controls and indicators	No controls and indicators affect to safety used. And the switch is a push button switch	N
1.7.8.1	Identification, location and marking	No switches and controls.	Ν
1.7.8.2	Colours	23 23	Ν
1.7.8.3	Symbols according to IEC 60417	503 503	Ν
1.7.8.4	Markings using figures:	No indicators for different positions.	Z
1.7.9	Isolation of multiple power sources	Single power source	Z
1.7.10	Thermostats and other regulating devices	Such devices not used.	Ν
1.7.11	Durability	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling and lifting of the label edge.	B B B B B B B B B B B B B B B B B B B
1.7.12	Removable parts	No removable part.	Ν
1.7.13	Replaceable batteries:	0,55	N
3	Language(s):	(5)	_
1.7.14	Equipment for restricted access locations::	Not intended for use in restricted access locations.	N
180	(65)	3 53	77
2	PROTECTION FROM HAZARDS	3 503	Р
2.1	Protection from electric shock and energy hazards	133	P -
2.1.1	Protection in operator access areas	No access with test finger and test pin to any hazardous parts.	Р
2.1.1.1	Access to energized parts	33 5	N
	Test by inspection	B 33	N
3	Test with test finger (Figure 2A)	Ben B	N
- R	Test with test pin (Figure 2B)	160	N
			140

Version: V1.0 Page 6 of 53

Ν

Ν

Ν

No ELV wiring in operator

accessible area.

Test with test probe (Figure 2C)

Battery compartments

Access to ELV wiring

2.1.1.2

2.1.1.3

121	IEC 60950-1	333	9
Clause	Requirement + Test	Result - Remark	Verdic
35 23	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)	(see appended table 2.10.5)	_
2.1.1.4	Access to hazardous voltage circuit wiring	No hazardous voltage wiring in operator accessible area.	N
2.1.1.5	Energy hazards:	No energy hazards.	Р
2.1.1.6	Manual controls	2 23	N
2.1.1.7	Discharge of capacitors in equipment	B 33	N
12	Measured voltage (V); time-constant (s)	Rea Rea	
2.1.1.8	Energy hazards – d.c. mains supply	160 160	N
	a) Capacitor connected to the d.c. mains supply:	(S) (S)	N
3	b) Internal battery connected to the d.c. mains supply:	1.03 J.	Z
2.1.1.9	Audio amplifiers	333	N
2.1.2	Protection in service access areas	No operator accessible area that needs to be accessed by the use of a tool.	N
2.1.3	Protection in restricted access locations	Not intended for use in restricted access locations.	N
0.0	Toring to	63	
2.2	SELV circuits	- 33	P P
2.2.1	General requirements	The secondary circuits were tested as SELV. See 2.2.2 to 2.2.4.	P
2.2.2	Voltages under normal conditions (V)	Been B	Р
2.2.3	Voltages under fault conditions (V)	Single fault did not cause excessive voltage in accessible SELV circuits. Limits of 71V peak and 120V d.c. were not exceeded within 0.2 seconds and limits 42.4V peak and 60V d.c. were not exceeded for longer than 0.2 seconds.	P
2.2.4	Connection of SELV circuits to other circuits:	See sub-clauses 2.2.2 and 2.2.3. and 2.4.2	Р
2.3	TNV circuits	25	N
2.3.1	Limits	33 8	N
<u> </u>	Type of TNV circuits	Res	
2.3.2	Separation from other circuits and from accessible parts	S 163	N
2.3.2.1	General requirements	(65)	N

Version: V1.0 Page 7 of 53

	IEC 60950-1	5 5	9
Clause	Requirement + Test	Result - Remark	Verdic
(FR.	350 350 350	0.50	(2:3)
2.3.2.2	Protection by basic insulation	7,03	N
2.3.2.3	Protection by earthing	3 33	N
2.3.2.4	Protection by other constructions	a Box	N
2.3.3	Separation from hazardous voltages	1,50	N
Ben	Insulation employed	(E) (E)	_
2.3.4	Connection of TNV circuits to other circuits	(23) C3	N
08	Insulation employed	523 523	_
2.3.5	Test for operating voltages generated externally	33 33	N
2.4	Limited current circuits	(3)	N
2.4.1	General requirements	23	N
2.4.2	Limit values	B-38 B	N
3	Frequency (Hz):	399	N
na	Measured current (mA)	1,50	_
300	Measured voltage (V)	63	
11.00	Measured circuit capacitance (nF or µF)	registration of the state of th	_
2.4.3	Connection of limited current circuits to other	28 W 28	N
- 10	circuits	Jones Bee	110
Pin	B Bos Bos	Res Res	1
2.5	Limited power sources	183 183	Р
7	a) Inherently limited output	T. C.S. T. C.S.	N
9.	b) Impedance limited output	23	N
	c) Regulating network or IC current limiter, limits	On normal and abnormal(see	Р
	output under normal operating and single fault	1.4.14 singnal fault conditon)	30
	condition	conditon, the power on	GS)
	(3)	accessible live parts is safty	350
(3)	Use of integrated circuit (IC) current limiters	3 73	N
135	d) Overcurrent protective device limited output	38 338	N
03	Max. output voltage (V), max. output current (A),	The Book	_
	max. apparent power (VA)	130 130	
Re	Current rating of overcurrent protective device	(3) (3)	N
	(A)	. 23	
	(2) (3)	5-33	i.
2.6	Provisions for earthing and bonding	Bee Bee	N
2.6.1	Protective earthing	Class III equipment.	N
2.6.2	Functional earthing	050	Ν
353	Use of symbol for functional earthing:	~.03	N
2.6.3	Protective earthing conductors and protective	5 53	N
23	bonding conductors	3 3	30
2.6.3.1	General	Bee	N
2.6.3.2	Size of protective earthing conductors	(830)	N

Version: V1.0 Page 8 of 53

Clause	IEC 60950-1 Requirement + Test	Result - Remark	Verdict
Ciause	Noquilenieni + 165t	Tresuit - Iternain	ı veruici
35	(2) (2)	03	68
,63 ,63	Rated current (A), cross-sectional area (mm²), AWG	S GS	_
2.6.3.3	Size of protective bonding conductors	30	N
Res	Rated current (A), cross-sectional area (mm²), AWG	(S) (S)	_
Ba	Protective current rating (A), cross-sectional area (mm²), AWG:	LES LES	_
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω) , voltage drop (V), test current (A), duration (min)	LES LES	N
2.6.3.5	Colour of insulation:	5 B	N
2.6.4	Terminals	1 130	N
2.6.4.1	General	3 190	N
2.6.4.2	Protective earthing and bonding terminals	(3)	N
TROS.	Rated current (A), type, nominal thread diameter (mm)	(S) (S)	_
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	LES LES	N
2.6.5	Integrity of protective earthing	Ben Ben	N
2.6.5.1	Interconnection of equipment	1.65	N
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	Reg Re	N
2.6.5.3	Disconnection of protective earth	13 13	N
2.6.5.4	Parts that can be removed by an operator	a Basil	N
2.6.5.5	Parts removed during servicing	11.00	N
2.6.5.6	Corrosion resistance	0 780	N
2.6.5.7	Screws for protective bonding	25 7.25	N
2.6.5.8	Reliance on telecommunication network or cable distribution system	LES LES	N
0.7	Consequent and south fault and of the second	suite 23	N.
2.7	Overcurrent and earth fault protection in primary cir	Cuits	N
2.7.1	Basic requirements	Bee Wes	N
3	Instructions when protection relies on building installation	Res Re	N
2.7.2	Faults not simulated in 5.3.7	Ros 0	N
2.7.3	Short-circuit backup protection	700	N
2.7.4	Number and location of protective devices:	(3)	N
2.7.5	Protection by several devices	(S) (C)	N
2.7.6	Warning to service personnel:	23 23	N
2.8	Safety interlocks		N

Version: V1.0 Page 9 of 53

	IEC 60950-1	5 3	8
Clause	Requirement + Test	Result - Remark	Verdic
2.8.1	General principles	No safety interlocks used	N
2.8.2	Protection requirements	8 30.8	N
2.8.3	Inadvertent reactivation	BSS	N
2.8.4	Fail-safe operation	30 (30	N
TOO	Protection against extreme hazard	(25 7, 25	N
2.8.5	Moving parts	. 23	N
2.8.6	Overriding	Bag Bag	N
2.8.7	Switches, relays and their related circuits	Real Real	N
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)	162 16	N
2.8.7.2	Overload test	(25)	N
2.8.7.3	Endurance test	263	N
2.8.7.4	Electric strength test	15 08	N
2.8.8	Mechanical actuators	3 3	N
500	Real Plan	760	06
2.9	Electrical insulation	45 7,45	Р
2.9.1	Properties of insulating materials	25 2S	Р
	Humidity conditioning	Performed at 45°C, 93% R.H. for 120h (requested by manufacturer). Test was performed on product with each source of transformer listed in table 1.5.1	
3	Relative humidity (%), temperature (°C):	See above.	
2.9.3	Grade of insulation	See above.	(35)
2.9.4	Separation from hazardous voltages	(3)	N
1.50	Method(s) used:	5 7,25	_
65	25 265	38 338	. In
2.10	Clearances, creepage distances and distances thro	ugh insulation	N
2.10.1	General	USS USS	Ν
2.10.1.1	Frequency	(E) (E)	N
2.10.1.2	Pollution degrees	~ c5 ~ cS	Ν
2.10.1.3	Reduced values for functional insulation	3 23	N
2.10.1.4	Intervening unconnected conductive parts	B-38 B-	N
2.10.1.5	Insulation with varying dimensions	Blog Blo	N
2.10.1.6	Special separation requirements	U.S. O.	N
2.10.1.7	Insulation in circuits generating starting pulses	(3)	N
2.10.2	Determination of working voltage	5 68	N
2.10.2.1	General	S	N
2.10.2.2	RMS working voltage	93 B-38	N
2.10.2.3	Peak working voltage	Jan Mas	N

Version: V1.0 Page 10 of 53

	IEC 60950-1	5-3	
Clause	Requirement + Test	Result - Remark	Verdic
100	1,50	(25)	(63)
2.10.3	Clearances	- 63	N
2.10.3.1	General	3 5 3	N
2.10.3.2	Mains transient voltages	3 Biss	N
Back	a) AC mains supply:	30 11.50	N
PRO	b) Earthed d.c. mains supplies	(E) (E)	N
N. Co	c) Unearthed d.c. mains supplies	(25) CS	N
06	d) Battery operation	3 3	N
2.10.3.3	Clearances in primary circuits	Bas Bas	N
2.10.3.4	Clearances in secondary circuits	Res Res	N
2.10.3.5	Clearances in circuits having starting pulses	nes ne	N
2.10.3.6	Transients from a.c. mains supply:	135	Ν
2.10.3.7	Transients from d.c. mains supply:	23	N
2.10.3.8	Transients from telecommunication networks and	3 33	N
	cable distribution systems:	3 33	Res
2.10.3.9	Measurement of transient voltage levels	750	N
Black	a) Transients from a mains supply	650	N
1700	For an a.c. mains supply:	(25) (25)	N
W.C.	For a d.c. mains supply:	38 38	N
0.00	b) Transients from a telecommunication network :	Bas Bas	N
2.10.4	Creepage distances	Real Real	N
2.10.4.1	General	Been Been	N
2.10.4.2	Material group and comparative tracking index	160 16	N
	CTI tests	T (2)3	_
2.10.4.3	Minimum creepage distances	5.23	N
2.10.5	Solid insulation	S S S S S S S S S S S S S S S S S S S	N
2.10.5.1	General	G Res	N
2.10.5.2	Distances through insulation	1.50	N
2.10.5.3	Insulating compound as solid insulation	30 (30	N
2.10.5.4	Semiconductor devices	(25)	N
2.10.5.5.	Cemented joints	28 5 38	N
2.10.5.6	Thin sheet material – General	Ros Ros	N
2.10.5.7	Separable thin sheet material	Res Res	N
-1	Number of layers (pcs):	1.50	
2.10.5.8	Non-separable thin sheet material	CS)	N G
2.10.5.9	Thin sheet material – standard test procedure	23	N
	Electric strength test	1300	
2.10.5.10	Thin sheet material – alternative test procedure	S Res	N
2.10.0.10	Electric strength test	7(35)	-
2.10.5.11	Insulation in wound components	50 (65	N
2.10.5.11	Wire in wound components	25	N

Version: V1.0 Page 11 of 53

	IEC 60950-1	0 2 0	3
Clause	Requirement + Test	Result - Remark	Verdict
.5	Working voltage:	1150	N
235	a) Basic insulation not under stress:	Read	N
200	b) Basic, supplementary, reinforced insulation:	(A) (P,C)	N
Ban	c) Compliance with Annex U:		N
BES.	Two wires in contact inside wound component;	33 7,65	N
2.10.5.13	angle between 45° and 90°	LES LES	N
12	Electric strength test	365	
	Routine test	1.50	N
2.10.5.14	Additional insulation in wound components	(25)	N
9	Working voltage	23	N
35	- Basic insulation not under stress:	503	N
283	- Supplementary, reinforced insulation	3 3	N
2.10.6	Construction of printed boards	0.65	N
2.10.6.1	Uncoated printed boards	650	N
2.10.6.2	Coated printed boards	(3) (3)	N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	JES JES	N
2.10.6.4	Insulation between conductors on different layers of a printed board	162 168 180	N
	Distance through insulation	30 630	N
	Number of insulation layers (pcs):	5,83	N
2.10.7	Component external terminations	5 23 5	N
2.10.8	Tests on coated printed boards and coated components	LSS B	N
2.10.8.1	Sample preparation and preliminary inspection	180	N
2.10.8.2	Thermal conditioning	35 (35)	N
2.10.8.3	Electric strength test	. (8)	N
2.10.8.4	Abrasion resistance test	5-33	N
2.10.9	Thermal cycling	Real Real	N
2.10.10	Test for Pollution Degree 1 environment and insulating compound	Res Res	N
2.10.11	Tests for semiconductor devices and cemented joints	USS US	N
2.10.12	Enclosed and sealed parts	300	N
28	Bas Rose Base	3 Bee	Ben
3	WIRING, CONNECTIONS AND SUPPLY	000	N
3.1	General	35 (25)	N
3.1.1	Current rating and overcurrent protection	25 28	N
3.1.2	Protection against mechanical damage	2 03 500	N

Version: V1.0 Page 12 of 53

	IEC 60950-1	5 2 5	9
Clause	Requirement + Test	Result - Remark	Verdic
		N.S.	80
3.1.3	Securing of internal wiring	185	N
3.1.4	Insulation of conductors	5 7.23	N
3.1.5	Beads and ceramic insulators	3 5	N
3.1.6	Screws for electrical contact pressure	33 33	N
3.1.7	Insulating materials in electrical connections	160	N
3.1.8	Self-tapping and spaced thread screws	(2)	N
3.1.9	Termination of conductors	185 185	N
_	10 N pull test	3	N
3.1.10	Sleeving on wiring	183	N
3.2	Connection to a.c. mains supply	23	N
3.2.1	Means of connection	503 5	N
3.2.1.1	Connection to an a.c. mains supply	Bar I	N
3.2.1.2	Connection to a d.c. mains supply	BSS.	N
3.2.2	Multiple supply connections	(65)	N
3.2.3	Permanently connected equipment	25 725	N
7 (2)0	Number of conductors, diameter of cable and	(3)	
	conduits (mm):	333 333	
3.2.4	Appliance inlets	Real Real	N
3.2.5	Power supply cords	Mes Mes	N
3.2.5.1	AC power supply cords	160 165	N
	Туре:	300	
3	Rated current (A), cross-sectional area (mm²), AWG	BES	_
3.2.5.2	DC power supply cords	3.00	N
3.2.6	Cord anchorages and strain relief	0.50	N
1,50	Mass of equipment (kg), pull (N):	(3)	
760	Longitudinal displacement (mm):	. 25	
3.2.7	Protection against mechanical damage	38 538	N
3.2.8	Cord guards	Box Box	N
0	Diameter or minor dimension D (mm); test mass	13 RES	_
	(g)	23	
2.2.0	Radius of curvature of cord (mm)	and a great	
3.2.9	Supply wiring space	Been Be	N
3.3	Wiring terminals for connection of external conductor	UIS	N
3.3.1	Wiring terminals	63	N
3.3.2	Connection of non-detachable power supply cords	8 28	N
3.3.3	Screw terminals	3	N
3.3.4	Conductor sizes to be connected	360	N
	Rated current (A), cord/cable type, cross-sectional area (mm²):	133	

Version: V1.0 Page 13 of 53

Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
3.3.5	Wiring terminal sizes	33	N
23	Rated current (A), type, nominal thread diameter	B BOR	
508	(mm):	3 350	
3.3.6	Wiring terminal design	30 (30	N
3.3.7	Grouping of wiring terminals	(3) (3)	N
3.3.8	Stranded wire	(23) 3(2S)	N
3.4	Disconnection from the mains supply	13	N
3.4.1	General requirement	69, 69,	N
3.4.2	Disconnect devices	23	N
3.4.3	Permanently connected equipment	Not permanently connected	N
3.4.3	remanently connected equipment	equipment.	55)N
3.4.4	Parts which remain energized	When appliance coupler is	N
	Road Road Road	disconnected no remaining	Res
	Real Real Real	parts with hazardous voltage	20
1700	(3)	in the equipment.	7
3.4.5	Switches in flexible cords	None	N
3.4.6	Number of poles - single-phase and d.c.	The appliance coupler	N
	equipment	disconnects both poles	
B	Bee Hee	simultaneously.	
3.4.7	Number of poles - three-phase equipment	Single phase equipment.	N
3.4.8	Switches as disconnect devices	Power plug as disconnect	N
)	(2) (2)	devices	.3
3.4.9	Plugs as disconnect devices	Boo B	N
3.4.10	Interconnected equipment	Not interconnected equipment.	N
3.4.11	Multiple power sources	Only one supply connection	N
0.50	160	provided.	100
(35)		CS TOS	
3.5	Interconnection of equipment	63 53	N
3.5.1	General requirements	112	N
3.5.2	Types of interconnection circuits	0.00	N
3.5.3	ELV circuits as interconnection circuits	(3)	N
3.5.4	Data ports for additional equipment	nes nes	N
4	PHYSICAL REQUIREMENTS	163 16	Р
4.1	Stability	m<7kg	N
30	Angle of 10°		N
(25)	Test force (N):	3 3 3	N
4.2	Mechanical strength	7195	P

Version: V1.0 Page 14 of 53

4.2.1 General See below. Tested with each source of plastic material used for enclosure. After tests, unit complies with the requirements of sub-clauses 2.1.1 and 2.10. Rack-mounted equipment. (See Annex DD) 4.2.2 Steady force test, 10 N 10 N applied to all internal components. 4.2.3 Steady force test, 30 N No internal enclosure. 4.2.4 Steady force test, 250 N 250 N applied to outer enclosure. No energy or other hazards. 4.2.5 Impact test Swing test 4.2.6 Drop test; height (mm) 1m, See the appended table 4.2.6 4.2.7 Stress relief test After the test at temperature of 70°C, no shrinkage, distortion or loosening of any enclosure part was noticeable on the equipment. (All enclosure material considered.) 4.2.9 High pressure lamps No high pressure lamp provided. 4.2.10 Wall or ceiling mounted equipment; force (N): Not wall or ceiling mounted equipment. 4.3 Design and construction 4.3.1 Edges and corners Edges and corners of the enclosure are rounded. 4.3.2 Handles and manual controls; force (N): No handles or controls provided. 4.3.3 Adjustable controls No such controls provided. 4.3.4 Securing of parts Connection by plugs and sockets Torque	lause	Requirement + Test	Result - Remark	Verdic
source of plastic material used for enclosure. After tests, unit complies with the requirements of sub-clauses 2.1.1 and 2.10. Rack-mounted equipment. (See Annex DD) 4.2.2 Steady force test, 10 N 10 N applied to all internal components. 4.2.3 Steady force test, 30 N No internal enclosure. 4.2.4 Steady force test, 250 N 250 N applied to outer enclosure. No energy or other hazards. Impact test Fall test Swing test 4.2.6 Drop test; height (mm) 1m, See the appended table 4.2.6 4.2.7 Stress relief test After the test at temperature of 70°C, no shrinkage, distortion or loosening of any enclosure part was noticeable on the equipment. (All enclosure material considered.) 4.2.9 High pressure lamps No high pressure lamp provided. 4.2.10 Wall or ceiling mounted equipment; force (N) 3.1 Edges and corners Edges and corners of the enclosure are rounded. 4.3.1 Edges and manual controls; force (N) No such controls provided. 4.3.3 Adjustable controls No such controls provided.	2.1	Conord	Can below Tooted with analy	(S)
for enclosure. After tests, unit complies with the requirements of sub-clauses 2.1.1 and 2.10. Rack-mounted equipment. 4.2.2 Steady force test, 10 N 10 N applied to all internal components. 4.2.3 Steady force test, 30 N No internal enclosure. 4.2.4 Steady force test, 250 N 250 N applied to outer enclosure. No energy or other hazards. 4.2.5 Impact test Fall test Swing test 4.2.6 Drop test; height (mm)	.2.1	General	Of Colors	PS
Rack-mounted equipment. (See Annex DD) 4.2.2 Steady force test, 10 N 10 N applied to all internal components. 4.2.3 Steady force test, 30 N No internal enclosure. 4.2.4 Steady force test, 250 N 250 N applied to outer enclosure. No energy or other hazards. 4.2.5 Impact test Fall test Swing test 1 may be seen the seen that t		160		0.00
Access of sub-clauses 2.1.1 and 2.10. Rack-mounted equipment. Rack-mounted endipment. Rack-mounted endinternal construction. Racket Headers Aller the test at temperati		7 (25 ° (25 °)	364	12
Rack-mounted equipment. 4.2.2 Steady force test, 10 N 4.2.3 Steady force test, 30 N A.2.4 Steady force test, 250 N A.2.5 Steady force test, 250 N A.2.6 Steady force test, 250 N A.2.7 Impact test A.2.8 Stress relief test A.2.9 After the test at temperature of 70°C, no shrinkage, distortion or loosening of any enclosure material considered.) A.2.9 High pressure lamps A.2.9 High pressure lamps A.2.10 Wall or ceiling mounted equipment; force (N)		23 23	133	131
4.2.2 Steady force test, 10 N 10 N applied to all internal components. 4.2.3 Steady force test, 250 N No internal enclosure. 250 N applied to outer enclosure. No energy or other hazards. 4.2.5 Impact test Fall test Swing test 4.2.6 Drop test; height (mm)	25	Pack-mounted equipment	3- 3	N
4.2.3 Steady force test, 30 N 4.2.4 Steady force test, 250 N 4.2.5 Impact test Fall test Swing test 4.2.6 Drop test; height (mm)	2.2		The state of the s	P
4.2.4 Steady force test, 250 N 250 N applied to outer enclosure. No energy or other hazards. 4.2.5 Impact test Fall test Swing test 4.2.6 Drop test; height (mm)	.2.2	Steady force test, 10 fv	components.	'
enclosure. No energy or other hazards. 4.2.5 Impact test Fall test Swing test 4.2.6 Drop test; height (mm)	.2.3	Steady force test, 30 N	No internal enclosure.	N
4.2.5 Impact test Fall test Swing test 4.2.6 Drop test; height (mm)	.2.4	Steady force test, 250 N	250 N applied to outer	Р
4.2.5 Impact test Fall test Swing test 4.2.6 Drop test; height (mm)		182 182 182	enclosure. No energy or other	35
Fall test Swing test 4.2.6 Drop test; height (mm))	T. 65 T. 63	hazards.	23
Swing test 4.2.6 Drop test; height (mm)	.2.5	Impact test	3-3	N
4.2.6 Drop test; height (mm)	23	Fall test	3 33	N
4.2.6 4.2.7 Stress relief test After the test at temperature of 70°C, no shrinkage, distortion or loosening of any enclosure part was noticeable on the equipment. (All enclosure material considered.) 4.2.8 Cathode ray tubes No CRT in the unit. Picture tube separately certified	-G	Swing test	0.50	N
After the test at temperature of 70°C, no shrinkage, distortion or loosening of any enclosure part was noticeable on the equipment. (All enclosure material considered.) 4.2.8 Cathode ray tubes No CRT in the unit. Picture tube separately certified	.2.6	Drop test; height (mm):	1m, See the appended table	Р
70°C, no shrinkage, distortion or loosening of any enclosure part was noticeable on the equipment. (All enclosure material considered.) 4.2.8 Cathode ray tubes No CRT in the unit. Picture tube separately certified	160	(2)	4.2.6	
loosening of any enclosure part was noticeable on the equipment. (All enclosure material considered.) 4.2.8 Cathode ray tubes No CRT in the unit. Picture tube separately certified	.2.7	Stress relief test	After the test at temperature of	Р
was noticeable on the equipment. (All enclosure material considered.) 4.2.8 Cathode ray tubes No CRT in the unit. Picture tube separately certified		3 28 33	70°C, no shrinkage, distortion or	
equipment. (All enclosure material considered.) 4.2.8 Cathode ray tubes No CRT in the unit. Picture tube separately certified		es Bes	loosening of any enclosure part	
### Acceptable of the enclosure are rounded. ##################################		Real Real	was noticeable on the	200
4.2.8 Cathode ray tubes Picture tube separately certified		(C) (C)	equipment. (All enclosure	3
Picture tube separately certified			material considered.)	33
4.2.9 High pressure lamps No high pressure lamp provided. 4.2.10 Wall or ceiling mounted equipment; force (N): Not wall or ceiling mounted equipment. 4.3 Design and construction 4.3.1 Edges and corners Edges and corners of the enclosure are rounded. 4.3.2 Handles and manual controls; force (N): No handles or controls provided. 4.3.3 Adjustable controls 4.3.4 Securing of parts 4.3.5 Connection by plugs and sockets 4.3.6 Direct plug-in equipment	.2.8	Cathode ray tubes	No CRT in the unit.	N
4.2.10 Wall or ceiling mounted equipment; force (N): Not wall or ceiling mounted equipment. 4.3 Design and construction 4.3.1 Edges and corners Edges and corners of the enclosure are rounded. 4.3.2 Handles and manual controls; force (N): No handles or controls provided. 4.3.3 Adjustable controls Adjustable controls Connection by plugs and sockets 4.3.5 Connection by plugs and sockets Direct plug-in equipment	S	Picture tube separately certified:	0.30	N
4.2.10 Wall or ceiling mounted equipment; force (N): Not wall or ceiling mounted equipment. 4.3 Design and construction 4.3.1 Edges and corners Edges and corners of the enclosure are rounded. 4.3.2 Handles and manual controls; force (N): No handles or controls provided. 4.3.3 Adjustable controls 4.3.4 Securing of parts 4.3.5 Connection by plugs and sockets 4.3.6 Direct plug-in equipment	.2.9	High pressure lamps	No high pressure lamp	N
4.3 Design and construction 4.3.1 Edges and corners Edges and corners of the enclosure are rounded. 4.3.2 Handles and manual controls; force (N)	1500	150 NO	Transaction (S. Variable)	13
4.3 Design and construction 4.3.1 Edges and corners Edges and corners of the enclosure are rounded. 4.3.2 Handles and manual controls; force (N): No handles or controls provided. 4.3.3 Adjustable controls A.3.4 Securing of parts 4.3.5 Connection by plugs and sockets 4.3.6 Direct plug-in equipment	.2.10	Wall or ceiling mounted equipment; force (N):	Not wall or ceiling mounted	N
4.3.1 Edges and corners Edges and corners of the enclosure are rounded. 4.3.2 Handles and manual controls; force (N)	(35)	- CS - CS	equipment.	12
4.3.1 Edges and corners Edges and corners of the enclosure are rounded. 4.3.2 Handles and manual controls; force (N)	2 0 5	Design and construction	25 23	Р
4.3.2 Handles and manual controls; force (N)			Educa and some or of the	P
4.3.2 Handles and manual controls; force (N)	.3.1	Eages and corners		P
4.3.3 Adjustable controls No such controls provided. 4.3.4 Securing of parts 4.3.5 Connection by plugs and sockets 4.3.6 Direct plug-in equipment	2.2	Handles and manual controls: force (N)		N
4.3.4 Securing of parts 4.3.5 Connection by plugs and sockets 4.3.6 Direct plug-in equipment			- 16100 A	m 3
4.3.5 Connection by plugs and sockets 4.3.6 Direct plug-in equipment	The second		TNO Such controls provided.	N N
4.3.6 Direct plug-in equipment			300	N
A 13 11 11 11 11 11 11 11 11 11 11 11 11	A Section 1		3 300	N
rorque:	.ა.ಠ		3 150	N
Compliance with the relevant mains plug standard	550		52 T.C.S	N

Version: V1.0 Page 15 of 53

Clause	IEC 60950-1	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdic
4.3.7	Heating elements in earthed equipment	No heating elements provided.	N
4.3.8	Batteries	Batteries used.	Р
203	- Overcharging of a rechargeable battery	350	Р
BCS.	- Unintentional charging of a non-rechargeable battery	(GS) (GS	N
180	- Reverse charging of a rechargeable battery	.23	Р
20	- Excessive discharging rate for any battery	33 33	Р
4.3.9	Oil and grease	No oil or grease.	N
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N
4.3.11	Containers for liquids or gases	No container for liquid or gas.	N
4.3.12	Flammable liquids:	No such flammable liquid.	N
283	Quantity of liquid (I):	3 850	N
333	Flash point (°C):	S NESS	N
4.3.13	Radiation	30 (3	Р
4.3.13.1	General	(3)	Р
4.3.13.2	Ionizing radiation	328	N
0.0	Measured radiation (pA/kg):	Bas Bas	
P	Measured high-voltage (kV):	350	
0	Measured focus voltage (kV):	BES BES	
	CRT markings:	S) CS)	
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	263	N
) 2S	Part, property, retention after test, flammability classification:	LES L	N
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	3 350	N
4.3.13.5	Lasers (including laser diodes) and LEDs	0.39	N
4.3.13.5.1	Lasers (including laser diodes)	C5 ~ C5	<u>~</u>
430	Laser class:	as as	
4.3.13.5.2	Light emitting diodes (LEDs)	333	
4.3.13.6	Other types:	Bag Bag	N
17.	63 B 3	Res Res	
4.4	Protection against hazardous moving parts	N.Co n.Co	N
4.4.1	General	030	N
4.4.2	Protection in operator access areas:	23	N
35 38	Household and home/office document/media shredders	(see Annex EE)	N
4.4.3	Protection in restricted access locations:	190	N
4.4.4	Protection in service access areas	30 (35	N
4.4.5	Protection against moving fan blades	(45)	N
4.4.5.1	General	23	N

Version: V1.0 Page 16 of 53

	IEC 60950-1	Real Box	5
Clause	Requirement + Test	Result - Remark	Verdict
,S	Not considered to cause pain or injury. a):	1100	N
23	Is considered to cause pain, not injury. b)	111111111111111111111111111111111111111	N
200	Considered to cause injury.	3 350	N
4.4.5.2	Protection for users	30 (30	N
Ties	Use of symbol or warning	(3) (3)	N
4.4.5.3	Protection for service persons	. es es	N
00	Use of symbol or warning	53	N
15	as by	Real Real	
4.5	Thermal requirements	n.Go	Р
4.5.1	General	Equipment loaded with rated output current.	5 P
4.5.2	Temperature tests	(see appended table 4.5)	Р
3	Normal load condition per Annex L	(see appended table 4.5)	
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat:	35 63	N
000	25 25	203	B
4.6	Openings in enclosures	Bas Bas	N
4.6.1	Top and side openings	No openings	N
B	Dimensions (mm):	(E) (E)	
4.6.2	Bottoms of fire enclosures	T. C. S. T. C. S.	N
	Construction of the bottomm, dimensions (mm):	23	
4.6.3	Doors or covers in fire enclosures	Back Ba	N
4.6.4	Openings in transportable equipment	Bon B	N
4.6.4.1	Constructional design measures	N.S.	N
50	Dimensions (mm):	GSD C	
4.6.4.2	Evaluation measures for larger openings	3 <u>~.23</u>	N
4.6.4.3	Use of metallized parts	28 23	N
4.6.5	Adhesives for constructional purposes	Te Bee	N
15	Conditioning temperature (°C), time (weeks):	Bee Bee	
Pie	Boo Boo	1,50	
4.7	Resistance to fire	165 165	Р
4.7.1	Reducing the risk of ignition and spread of flame	No excessive temperatures. No easily burning materials employed. Fire enclosure provided.) P 3 23
હુઉ	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	Р
133 133	Method 2, application of all of simulated fault condition tests	S JES	N
		The second secon	

Version: V1.0 Page 17 of 53

Fire enclosure provided.

Р

Conditions for a fire enclosure

4.7.2

	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
4.7.2.1	Parts requiring a fire enclosure	With having the following parts Components in primary Components having unenclosed arcing parts at hazardous voltage or energy level Insulated wiring The fire enclosure is required.	P	
4.7.2.2	Parts not requiring a fire enclosure	Res Res	N	
4.7.3	Materials	n.co	Р	
4.7.3.1	General	See below	Р	
4.7.3.2	Materials for fire enclosures	V-0 fire enclosure used.	Р	
4.7.3.3	Materials for components and other parts outside fire enclosures	S S S	N	
4.7.3.4	Materials for components and other parts inside fire enclosures	PCB rated V-0. See appended table 1.5.1. Internal components except small parts are V-2 or better.	P	
4.7.3.5	Materials for air filter assemblies	No air filters provided.	N	
4.7.3.6	Materials used in high-voltage components	No high voltage components provided.	N	

5	ELECTRICAL REQUIREMENTS AND SIMULATED	ABNORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current	533	N
5.1.1	General	Bas B	N
5.1.2	Configuration of equipment under test (EUT)	350	N
5.1.2.1	Single connection to an a.c. mains supply	62.0	N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	25 <u>1</u> 25 25 25	N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	LES LES	N
5.1.3	Test circuit	Res Res	N
5.1.4	Application of measuring instrument	(S) (S)	N
5.1.5	Test procedure	325 635	N
5.1.6	Test measurements	28	N
5	Supply voltage (V):	Back Br	
3	Measured touch current (mA):	0.00	
03	Max. allowed touch current (mA)	465	—
300	Measured protective conductor current (mA):	(3)	_
160	Max. allowed protective conductor current (mA):	§ 68	_
5.1.7	Equipment with touch current exceeding 3,5 mA	23	N
5.1.7.1	General:	3 33	N

Version: V1.0 Page 18 of 53

43	IEC 60950-1	3 3	3
Clause	Requirement + Test	Result - Remark	Verdic
(10)	120 120 120	0(60)	(30)
5.1.7.2	Simultaneous multiple connections to the supply	7.65	N
5.1.8	Touch currents to telecommunication networks and	No TNV.	N
	cable distribution systems and from	is Book	
Back	telecommunication networks	30 (30	0
5.1.8.1	Limitation of the touch current to a	(3) (3)	Ν
	telecommunication network or to a cable	. 23	
0.0	distribution system	133	
12.	Supply voltage (V):	Res Res	_
//	Measured touch current (mA)	nes nes	_
	Max. allowed touch current (mA)	(2)	
5.1.8.2	Summation of touch currents from	23	N
0.1.0.2	telecommunication networks	Book B	3
33	a) EUT with earthed telecommunication ports:	1355	N
734	b) EUT whose telecommunication ports have no	7.65	N
		3 23	1514
100	reference to protective earth	23	17.
5.2	Electric strength	Bear Bear	Р
5.2.1	General	(see appended table 5.2)	<u>.</u> Р
5.2.2	Test procedure	(see appended table 5.2)	<u>.</u> Р
J.Z.Z	Test procedure	(see appended table 3.2)	Г
5.3	Abnormal operatingand fault conditions	3 3 3	Р
5.3.1	Protection against overload and abnormal	Real Real	N
0.0.1	operation	USO US	9
5.3.2	Motors	7,35	N
5.3.3	Transformers	233	- 415
253		D. dead de la Maria Harris	N
5.3.4	Functional insulation:	By short-circuited, results see	n.P
1120	160 160	appended table 5.3.	0.5
5.3.5	Electromechanical components	No electromechanical	Ν
(25)	3 5 3	component.	
5.3.6	Audio amplifiers in ITE:	De Des	N
5.3.7	Simulation of faults	0.65	P
5.3.8	Unattended equipment	No such equipment.	N
5.3.9	Compliance criteria for abnormal operating and	683	Р
	fault conditions	Ros Ros	0
5.3.9.1	During the tests	No fire or molten metal occurred	Р
	Pro 1200 1200	and no deformation of enclosure	
	(C) (C) (C)	during the tests.	
- 0 0 0	After the tests	3 3 3	N
5.3.9.2	Alter the tests		

Version: V1.0 Page 19 of 53

01-	IEC 60950-1	D. II D. III	1 37 P.
Clause	Requirement + Test	Result - Remark	Verdic
6.1	Protection of telecommunication network service p	persons and users of other	N
0.1	equipment connected to the network, from hazards		160
6.1.1	Protection from hazardous voltages		
6.1.2	Separation of the telecommunication network from	n earth	N N
6.1.2.1	Requirements	i eartii	N
0.1.2.1	Supply voltage (V):	733 338	IN
100	Current in the test circuit (mA):	350	
6.1.2.2		11.65	NI NI
0.1.2.2	Exclusions:	765	N
6.2	Protection of equipment users from overvoltages of	on telecommunication networks	N
6.2.1	Separation requirements	98	N
6.2.2	Electric strength test procedure	13000	N
6.2.2.1	Impulse test	1,50	N
6.2.2.2	Steady-state test	7 65	N
6.2.2.3	Compliance criteria	25 25	N
0.2.2.3	Compilance citeria	25 23	
6.3	Protection of the telecommunication wiring system	from overheating	N
Po	Max. output current (A):		
Ric	Current limiting method:		
17	55 1.65	(2) (2)	
7	CONNECTION TO CABLE DISTRIBUTION SYST	EMS	N
7.1	General	68	N
7.2	Protection of cable distribution system service	Real R	N
3	persons, and users of other equipment connected	160	50
	to the system, from hazardous voltages in the	, CS	135
		\$ 23	200
	recomonnem		
7.3	equipment Protection of equipment users from overvoltages	93	N
7.3	Protection of equipment users from overvoltages	3 3	N
7.3	Protection of equipment users from overvoltages on the cable distribution system	35 163 35 163	Bi
7.3	Protection of equipment users from overvoltages on the cable distribution system Insulation between primary circuits and cable		N N
7.4	Protection of equipment users from overvoltages on the cable distribution system Insulation between primary circuits and cable distribution systems		N
7.4 7.4.1	Protection of equipment users from overvoltages on the cable distribution system Insulation between primary circuits and cable distribution systems General		N N
7.4 7.4.1 7.4.2	Protection of equipment users from overvoltages on the cable distribution system Insulation between primary circuits and cable distribution systems General Voltage surge test		N N N
7.4 7.4.1 7.4.2	Protection of equipment users from overvoltages on the cable distribution system Insulation between primary circuits and cable distribution systems General		N N
7.4.1 7.4.2 7.4.3	Protection of equipment users from overvoltages on the cable distribution system Insulation between primary circuits and cable distribution systems General Voltage surge test Impulse test	AND FIRE	N N N N
7.4.1 7.4.2 7.4.3	Protection of equipment users from overvoltages on the cable distribution system Insulation between primary circuits and cable distribution systems General Voltage surge test Impulse test ANNEX A, TESTS FOR RESISTANCE TO HEAT	AND FIRE	N N N N N
133	Protection of equipment users from overvoltages on the cable distribution system Insulation between primary circuits and cable distribution systems General Voltage surge test Impulse test ANNEX A, TESTS FOR RESISTANCE TO HEAT A Flammability test for fire enclosures of movable	AND FIRE	N N N N
7.4 7.4.1 7.4.2 7.4.3	Protection of equipment users from overvoltages on the cable distribution system Insulation between primary circuits and cable distribution systems General Voltage surge test Impulse test ANNEX A, TESTS FOR RESISTANCE TO HEAT Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg,	AND FIRE	N N N N N
7.4.1 7.4.2 7.4.3 A A.1	Protection of equipment users from overvoltages on the cable distribution system Insulation between primary circuits and cable distribution systems General Voltage surge test Impulse test ANNEX A, TESTS FOR RESISTANCE TO HEAT Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	AND FIRE	N N N N
7.4.1 7.4.2 7.4.3	Protection of equipment users from overvoltages on the cable distribution system Insulation between primary circuits and cable distribution systems General Voltage surge test Impulse test ANNEX A, TESTS FOR RESISTANCE TO HEAT Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg,	AND FIRE	N N N N N

Version: V1.0 Page 20 of 53

	IEC 60950-1	7.3	3
Clause	Requirement + Test	Result - Remark	Verdict
A.1.3	Mounting of samples:	350	N
A.1.4	Test flame (see IEC 60695-11-3)	1133	N
A.1.4	Flame A, B, C or D:	5 763	IN
A 1 E	0.1627	£ 1.15	- NI
A.1.5	Test procedure	28 528	N
A.1.6	Compliance criteria	Page Plans	N
000	Sample 1 burning time (s)	Res Res	
B	Sample 2 burning time (s):	1(3)	_
	Sample 3 burning time (s):	165	
A.2	Flammability test for fire enclosures of movable equ		N
	exceeding 18 kg, and for material and components	located inside fire enclosures	.3
	(see 4.7.3.2 and 4.7.3.4)		30
A O 4	UL recognized material V-0 enclosure used.	7.60	0253
A.2.1	Samples, material	7,35	_
A 0 0	Wall thickness (mm)	3 25	
A.2.2	Conditioning of samples; temperature (°C):	23	7
A.2.3	Mounting of samples:	33	N
A.2.4	Test flame (see IEC 60695-11-4)	1900	N
105	Flame A, B or C	(3)	
A.2.5	Test procedure	16S 16S	N
A.2.6	Compliance criteria	3	N
	Sample 1 burning time (s):	Road Road	
	Sample 2 burning time (s):	7,600 3,60	_
3	Sample 3 burning time (s):	(ED)	_
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9	7,35	N
35	Sample 1 burning time (s):	S	
(28)	Sample 2 burning time (s):	3	
23	Sample 3 burning time (s):	0.50	_
A.3	Hot flaming oil test (see 4.6.2)	50 150	N
A.3.1	Mounting of samples	(3)	N
A.3.2	Test procedure	~ (S) ~ (S)	N
A.3.3	Compliance criterion	3	N
D	ANNEY D. MOTOR TESTS UNDER ARMORMAL C	CONDITIONS (and 4.7.2.2 and	. N
В	ANNEX B, MOTOR TESTS UNDER ABNORMAL C 5.3.2)	CONDITIONS (see 4.7.2.2 and	N 3
B.1	General requirements	33 3	N
5	Position:	300	_
23	Manufacturer:	0.00	_
200	Type:	2 (3)	
Pes	Rated values:	(ES)	
B.2	Test conditions	25	N
B.3	Maximum temperatures	238 50	N

Version: V1.0 Page 21 of 53

Clause	Requirement + Test	Result - Remark	Verdic
-	1.50 1.60	650	25
B.4	Running overload test	33	N
B.5	Locked-rotor overload test	B Book	N
a CS	Test duration (days):	350	
Back	Electric strength test: test voltage (V):	30 (30)	_
B.6	Running overload test for d.c. motors in secondary circuits	(3)	N
B.6.1	General	538 538	N
3.6.2	Test procedure	Real Real	N
B.6.3	Alternative test procedure	160	N
B.6.4	Electric strength test; test voltage (V):	160 16	N
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	BES B	Р
B.7.1	General	A vibration motor inside the unit.	Р
B.7.2	Test procedure	160	N
B.7.3	Alternative test procedure	30 (30	Р
3.7.4	Electric strength test; test voltage (V)	(3) (3)	N
3.8	Test for motors with capacitors	23	N
B.9	Test for three-phase motors	Bag Bag	N
B.10	Test for series motors	Bee Bee	N
	Operating voltage (V):	Per Per	_
С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)	533	N
5	Position:	5 3 5	
28	Manufacturer:	B. B. S.	
- B	Type::	1,50	_
15	Rated values:	(2)	
11.00	Method of protection:	25 7,25	_
C.1	Overload test	28 508	N
C.2	Insulation	338 338	N
120	Protection from displacement of windings:	B3 B50	N
)	ANNEX D, MEASURING INSTRUMENTS FOR TO (see 5.1.4)	UCH-CURRENT TESTS	N
D.1	Measuring instrument	Box Bo	N
D.2	Alternative measuring instrument	Rea 0	N
23	ANNEX E, TEMPERATURE RISE OF A WINDING	(see 1.4.13)	N
(3)	ANNEX F, MEASUREMENT OF CLEARANCES AN (see 2.10 and Annex G)	ND CREEPAGE DISTANCES	N

Version: V1.0 Page 22 of 53

Clause	Requirement + Test	Result - Remark	Verdict
0	ANNEY O ALTERNATIVE METHOR FOR RETER		(3)
G	ANNEX G, ALTERNATIVE METHOD FOR DETER CLEARANCES	MINING MINIMUM	N
G.1	Clearances	5 63	N
G.1.1	General	43 43	N N
G.1.1	Summary of the procedure for determining	(2)	N
0.1.2	minimum clearances	300	1,0
G.2	Determination of mains transient voltage (V)	Best Bross	N
G.2.1	AC mains supply:	Rea Rea	N
G.2.2	Earthed d.c. mains supplies	nes nes	N
G.2.3	Unearthed d.c. mains supplies:	160	N
G.2.4	Battery operation:	(23)	N
G.3	Determination of telecommunication network	2.5	N
	transient voltage (V):	333	300
G.4	Determination of required withstand voltage (V)	3 3	N
G.4.1	Mains transients and internal repetitive peaks:	760	N
Black	Les Les	65 765	0
G.4.2	Transients from telecommunication networks:	્રહેર્ડ દ્વારા	N
50	5 1, 25 1, 2S	3 28 5 38	103
G.4.3	Combination of transients	33 33	N
V	3 3	Bar Bar	
G.4.4	Transients from cable distribution systems	1150 115	N
G.5	Measurement of transient voltages (V)	0.65	N
1	a) Transients from a mains supply	- Ci3	N
0	For an a.c. mains supply	- 3	N
25	For a d.c. mains supply		N
23	b) Transients from a telecommunication network	3 33	N
G.6	Determination of minimum clearances:	350	N
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)	160	N
Blee	ANNEX II, IONIZING RADIATION (See 4.3.13)	TEST TEST	IN
J BE	ANNEX J, TABLE OF ELECTROCHEMICAL POTE	NTIALS (see 2.6.5.6)	N
0	Metal(s) used	~ CS ~ CS	
	.05 7.05 7.03	533 530	2
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	5.3.8)	N
K.1	Making and breaking capacity	000	N
K.2	Thermostat reliability; operating voltage (V):	(3)	N
K.3	Thermostat endurance test; operating voltage (V).:	(3)	N
K.4	Temperature limiter endurance; operating voltage (V):	S BES	N
K.5	Thermal cut-out reliability	Bes Bes	N
K.6	Stability of operation	(60)	No

Version: V1.0 Page 23 of 53

Clause			Maraia	
	Requirement + Test	Result - Remark	Verdic	
(5) (3)	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)			
L.1. G	Typewriters	350	N	
L.2	Adding machines and cash registers	(30)	N	
L.3	Erasers	(C) (C)	N	
L.4	Pencil sharpeners	~ 3 ~ 3 ~ 3 ~ 3 ~ 3 ~ 3 ~ 3 ~ 3 ~ 3 ~ 3	N	
L.5	Duplicators and copy machines	533 538	N	
L.6	Motor-operated files	Bas Bas	N	
L.7	Other business equipment	(See 1.6.2)	Р	
M	ANNEY M. CRITERIA FOR TELEPHONE PINCINI	C CICNIAL C (and 2 2 4)	20 Lon	
M.1	ANNEX M, CRITERIA FOR TELEPHONE RINGING	G SIGNALS (See 2.3.1)	N	
M.2	Introduction	7,65	N	
M.3	Method A Method B	3 (33	N N	
M.3.1	Ringing signal	3 23	N N	
M.3.1.1		25 23	IN	
M.3.1.2	Voltage (V)	0 0 0 0		
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:	160	N	
M.3.2.1	Conditions for use of a tripping device or a	85.0	N	
WI.O.Z. 1	monitoring voltage	63	3	
M.3.2.2	Tripping device	5 63 5	N	
M.3.2.3	Monitoring voltage (V)	1303	N	
N.S.	ANNEY N. IMPLII CE TECT CENEDATORS (co. 4	1570 4570 04000 0004	NE	
N	ANNEX N, IMPULSE TEST GENERATORS (see 1	1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1,	N	
N.1	7.3.2, 7.4.3 and Clause G.5)	100	N	
N.2	ITU-T impulse test generators IEC 60065 impulse test generator	183	N	
IV.Z	IEC 60065 Impulse lest generator	165 165	IN	
P NE	ANNEX P, NORMATIVE REFERENCES	(25)	_	
9	<u> </u>	- 3 3	_	
Q	ANNEX Q, Voltage dependent resistors (VDRs) (se	- (F.F.)	N	
	- Preferred climatic categories	Road Ro	N	
5	- Maximum continuous voltage	Black Bl	N	
3	- Combination pulse current	960	N	
	Body of the VDR	(3)	N	
(60)	Test according to IEC60695-11-5	5 7.63	O IE	
	Body of the VDR. Flammability class of material (min V-1)	25	N	

Version: V1.0 Page 24 of 53

	IEC 60950-1	5 3	18		
Clause	Requirement + Test	Result - Remark	Verdic		
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES				
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)				
R.2	Reduced clearances (see 2.10.3)	_G5	N		
C 1300	ANNEY & PROCEDURE FOR IMPUL SE TESTINO	(000 6 2 2 2)	N		
<u>S</u> S.1	ANNEX S, PROCEDURE FOR IMPULSE TESTING	(See 6.2.2.3)	N N		
S.2	Test equipment Test procedure	. (3)	N		
S.3	Examples of waveforms during impulse testing	23	N		
3.3	Examples of wavelorms during impulse testing	Blood Blood	IN		
i S	ANNEX T, GUIDANCE ON PROTECTION AGAINS (see1.1.2)	T INGRESS OF WATER	N		
US S	ANNEX U, INSULATED WINDING WIRES FOR US INSULATION (see 2.10.5.4)	SE WITHOUT INTERLEAVED	N		
U.1	General	UL approved triple insulated wire used transformer.	N		
U.2	Type tests	(3)	N		
U.2.1	General	(25)	N		
U.2.2	Electric strength	28	N		
U.2.2.1	Solid round winding wires and stranded winding wires	LGS L	3 N		
U.2.2.1.1	Wires with a nominal conductor diameter up to and including 0,100 mm	Res 1	N		
U.2.2.1.2	Wires with a nominal conductor diameter over 0,100 mm up to and including 2,500 mm	3 133	N		
U.2.2.1.3	Wires with a nominal conductor diameter over 2,500 mm	LES LES	N		
U.2.2.2	Square or rectangular wires	(25)	N		
U.2.3	Flexibility and adherence	3.03	N		
U.2.4	Heat shock	5-3	N		
U.2.5	Retention of electric strength after bending	Rose Ro	N		
U.3	Testing during manufacturing	Res I	N		
U.3.1	General	(3)	N		
U.3.2	Routine test	7, 65	N		
U.3.3	Sampling test	3 23	N		
(35)	23	28 B.R	Ba		
V 3	ANNEX V, AC POWER DISTRIBUTION SYSTEMS	(see 1.6.1)	N		
V.1	Introduction	(60	N		

Version: V1.0 Page 25 of 53

01-		Dec 16 December	V/
Clause	Requirement + Test	Result - Remark	Verdic
V.2	TN power distribution systems	Bar I	N
V.2	TT power distribution systems	3 1360	N
V.4	IT power distribution systems	160	N
V.4	The power distribution systems	ශ්රී දැනී	14
W	ANNEX W, SUMMATION OF TOUCH CURRENTS	(eS) (eS)	N
W.1	Touch current from electronic circuits	33 338	N
W.1.1	Floating circuits	Real Real	N
W.1.2	Earthed circuits	Pas Pas	N
W.2	Interconnection of several equipments	160 160	N
W.2.1	Isolation	7,62	N
W.2.2	Common return, isolated from earth	23	N
W.2.3	Common return, connected to protective earth	B-38 B	N
23	Bag Bag Ba	B. B. B.	Res
Χ	ANNEX X, MAXIMUM HEATING EFFECT IN TRAN	NSFORMER TESTS (see clause	N
	C.1)	35 (35	0.6
X.1	Determination of maximum input current	25 7.25	N
X.2	Overload test procedure	125	N
200	3 9 3 9 3	Ba Ba	10
Υ	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING	TEST (see 4.3.13.3)	N
Y.1	Test apparatus:	(3)	N
Y.2	Mounting of test samples:	25 25	N
Y.3	Carbon-arc light-exposure apparatus:	23	N
Y.4	Xenon-arc light exposure apparatus:	Bas Be	N
3	Real Property	Bes u	(80)
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.	10.3.2 and Clause G.2)	N
60	(6)	5 (25	200
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	3 3	N
BB	ANNEX BB, CHANGES IN THE SECOND EDITION	125	
ББ	ANNEX BB, CHANGES IN THE SECOND EDITION	23 3 20	
CC	ANNEX CC, Evaluation of integrated circuit (IC) cui	rront limitors	N
CC.1			N
CC.1	Integrated circuit (IC) current limiters	165 165	N
	Test program 1	63	
CC.3	Test program 2	23	N N
CC.4	Test program 3	Blood Bl	N
CC.5	Compliance	0.65	N
DD	ANNEY DD D	7.65	183
DD 1	ANNEX DD, Requirements for the mounting means	s of rack-mounted equipment	N
DD.1	General	6 5 6	N
DD.2	Mechanical strength test, variable N	33	N
DD.3	Mechanical strength test, 250N, including end	(GS) or (2)	N

Version: V1.0 Page 26 of 53

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. REPORT NO.: LCS1605191744S

IEC 60950-1					
Clause	Requirement + Test	Result - Remark	Verdict		
DD.4	Compliance:	1,63	N		
EE ₂ G	ANNEX EE, Household and home/office document/	media shredders	N		
EE.1	General	55	N		
EE.2	Markings and instructions	(45) (45)	N		
23	Use of markings or symbols	(2S) 3(S)	N		
	Information of user instructions, maintenance and/or servicing instructions:	LES LES	N		
EE.3	Inadvertent reactivation test:	Bee Bee	N		
EE.4	Disconnection of power to hazardous moving parts:	RES RE	N		
9	Use of markings or symbols:	3 63	N		
EE.5	Protection against hazardous moving parts	333	N		
25	Test with test finger (Figure 2A)	3 33	N		
	Test with wedge probe (Figure EE1 and EE2):	1,50	N		

Version: V1.0 Page 27 of 53

1.5.1	TAB	BLE: List of critical components				
Object/part	No.	Manufacturer/trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Enclosure		Chi Mei Corporation	PA-765A (+)	V-0, 85°C, Min: 2.1mm	UL 94	UL E56070
Battery		Various	Various	100mAh, 3.7V, 60°C	EN 62133: 2013	CE
PCB		KINGBOARD LAMINATES HOLDINGS LTD	KB-616(X)	130°C, V-0	UL 746E	UL E123995

1.6.2	TABLE: Electrical data test (in normal conditions)						Р
Fuse #	I rated (A)	U (V)	P (W)	I (A)	I fuse (A)	Condition	
3	3.0	5V	1.0	0.2	3 -	Max.normal load and charging empty battery.	

Remark:

1) Measured input current at the rated voltage should not exceed the rated value by more than 10% under maximum normal load.

1.7.11	TABLE: Durability of marking test		50	160	Р
Location		Checked by	Time	Result	
External enclosure Water		Water	15s	No any curling and still legibility	
External enclosure Petroleum spirit		15s	No any curling and still legibility	3	

2.1.1.5 c1)	TABL	E: Max. V, A, VA test	Road	Book	N
Voltage (rate	ed) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
	Bo	3 350	11,50	1.00	380

Remark:

- 1) The above measurements are the maximum values (max. V and max. A not obtained at the same time). Vin = 240Vac
- 2) Under highest rated voltage 240V/60Hz.

2.1.1.7 TABLE: Discharge test					
Condition	calculated ح		T u →0V(s)	Comments	
-1.85	- 13		2	a3 2	3

Remark:

- 1) Under highest 1.1 rated voltage --.
- 2) Overall capacity: --uF(CX1=--uF).
- 3) Discharge resistor:--Kohm(RX1=RX2=--Kohm)

2.2	TABLE: Hazardous	23	N		
Component (measured between)		Max. voltage (V) (ı	Max. voltage (V) (normal operation)		Components
		V peak	V d.c.		

Version: V1.0 Page 28 of 53

3 13 3	11	2	460
	C 1915	7.6 V	- 0
13.1-3	75 13-75-7	116457	- IF F 2

Remark:

- 1) Under highest Rated Voltage: --
- Measured at the output of safety isolation transformer and component used in series with transformer till SELV voltage measured.
- 3) Any two conductors of the SELV circuit or circuits shall not exceed 42.4 V peak, or 60 V d.c under normal operating conditions.
- 4) S-C=Short circuit

2.4.2 TABLE:	. 285 N				
Location	Voltage (V)	Current (mA)	Freq. (kHz)	Limit (mA)	Comments
125	3 5	03 13	28	700-	Barra

Remark:

- 1) Under highest Rated Voltage: --.
- 2) Measured under both normal condition and fault condition. A 2000 ohm non-inductive resistor used when testing.

			1.00		
2.5 TABLE: Limited pov	ver source me	asurement	Base	Bien	P 13.6
Test condition (Single fault)	Uoc(V)	Isc	(A)	S(V	/A)
		Measured	Limited	Measured	Limited
For battery:	39	000	035	20	:5
Normal	4.25	0.16	8.0	0.64	100
C1 S-C	0	0	0	0	0

Remark:

- 1) Measured Uoc(V) with all load circuit disconnected
- 2) S-C=Short circuit; O-C= Open circuit
- 3) Uoc: Max. output voltage
- 4) Isc: Output current with any non-capacitive load, including a short circuit measured 60s after application of the load
- 5) S(VA): Max. output VA with any non-capacitive load, including a short circuit, measured 60s after application
- 6) Measurement According to Table 2B

2.6.3.4 TABLE: Ground contin	ue test	28	B N
Location	Resistance measured(mΩ)	Comments	
- Bar	350	Misso	230
Remark:			
1) Test current: 32A. Test time: 2n	nin (25)		

2.9.2	TABLE: Humidi	ty test	3	B BO	C.	Р
Test condition:		Temperature Relative Humidity		Duration Breakdo		wn (Y/N)
		45°C	93%	120hours	30	V

Version: V1.0 Page 29 of 53

Remark:

1) After humidity test, electric strength test specified in clause 5.2.2 should be applied.

2.10.2	TABLE: Working voltage measurement						
Location		RMS Voltage (V)	Peak Voltage (V)	Commo	ents		
12 03	3	33 - 533	Bara	Bass	Re		

Remark:

- 1) Under highest Rated Voltage: --.
- 2) Establish common ground between primary and secondary and the unit operated normally.

2.10.3 and 2.10.4	TABLE	: Clearanc	e and Creep	age Distance	Measureme	nts	N
Clearance cl and creep	age	Up	U r.m.s.	Required cl	CI	Required	Dcr
distance dcr at/of:		(V)	(V)	(mm)	(mm)	dcr (mm)	(mm)
5 (3)	landa.	(35)		250	- CS	3	23

Test condition:

Pollution degree: class IIMaterial group: III b

- Main transient voltage: 2.5KV

Notes:

- 1) All internal wires soldered to PCB and internal wire are additionally glued .
- 2) Core of transformer T1 considered as primary part.

2.10.5	TABLE: Distance thro	ugh insulation me	easurements	162	S N
Distance	through insulation	Upeak / Ur.m.s	Test voltage	Required di (mm)	DTI (mm)
(DTI) at/	of:	(V)	(V)		
2	0.3	538	B=38	Pos	Pier

3.2.6	TABLE: S	train relief test	150	050	N
Pull	force	Duration	Times	Displaced (≦2m	nm)
William		160 160	785	383	000
		LA LIME LA	13 13 13	16-	1767

Remark:

1) After test, cord shall not be damaged, and clearances and creepage distances shall not be reduced.

.1 TABLE: Stability test		0.00	N SEL	
	Titled angle		Result	
	1.60		6.8	

4.2.4	TABLE:	Enclosure push te	st	5 3	P
Test	part	Pull force	Duration	Result	Breakdown (Y/N)
Enclo	sure	250N±10N	5s	No any damage, no any	N SSS
(outer	side)	300	Ban	hazardous parts accessible	C RE

Version: V1.0 Page 30 of 53

Remark:

1) After this test, conducted electric strength test according to clause 5.2.2, and no any breakdown.

4.2.5	4.2.5 TABLE: Impact test			CS.	23	N
Height External surface		Result				
n CE)	- 363	0.8	300	133	Be

Remark:

- 1) After the impact tests, the sample shall continue to comply with the requirements of 2.1.1, 2.6.1, 2.10, 3.2.6 and 4.4.1.
- 2) Except for equipment identified in 4.2.6, external surfaces of enclosures, the failure of which would give access to hazardous parts, are tested

4.2.6	TABLE: Drop test	P
Height	Horizontal surface	Result
1m	The horizontal surface consists of hardwood at least 13 mm thick, mounted on two layers of plywood each 19 mm to 20 mm thick, all supported on a concrete	No damage
USD.	or equivalent non-resilientfloor	15

Remark:

1) After the drop tests, the sample shall continue to comply with the requirements of 2.1.1, 2.6.1, 2.10, 3.2.6 and 4.4.1.

4.2.7	TABLE: Stre	ess relief test	~ (25) P
Tempe	erature (°C)	Duration	Result
70 7h		7h	Damage to finish, cracks, dents and chips are disregarded if
3	000	13 00	they do not adversely affect safety.

Remark:

- 1) After the test, the sample shall continue to comply with the requirements of 2.1.1, 2.6.1, 2.10, 3.2.6 and 4.4.1.
- 2) Oven temperature shall be 10 K higher than the maximum temperature on the enclosure but not less than 70°C.

4.3.6	TABLE	: Torque test (direct-plug in)	1 30 N
Test Torque		Require Torque	Pass or Fail
	1180	(C) (C) (C)	3.03

Version: V1.0 Page 31 of 53

4.3.8	TABLE	: Battery	1300	3	Re	28	B	28	13%	Р
The test of	of 4.3.8 are	e applicat	ole only wh	nen appro	priate bat	tery data i	s not ava	ilable	0	Р
Is it possil	ole to inst	all the bat	tery in a re	everse po	larity posi	tion		U.CO		Р
192	No	o-recharge	eable batte	ery		650	Recharge	able batte	ry	C (2)
LES LES	Discharge Un-intention charging			Charging		Discharging		Reversed Charging		
33	Meas. current	Manuf. Specs.	Meas. Current	Manuf. Specs.	Meas.	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	PRZ PRZ PRZ	- (162 163 183	3	185 mA	100mA	96 mA	100 mA	188 188	3 33
Max. current during fault condition		35 35 35 35	B	183 183 183	185 mA	100 mA	96 mA	100 mA	 3	P.C.S.
Test resul	t:	Re	0	176	30	0	30	0	SS	Verdict
- Chemica	al leaks	12	50	(2)	(3)	No chemical leaks				Р
- Explosio	n of the b	attery	(3)		083	No explosion of the battery				Р
- Emissior	n of flame	or expuls	ion of mol	ten meta	J.CS	No emis		ame or ex	pulsion of	Р
- Electric s tests	strength te	ests of eq	uipment a	fter comp	letion	No insula	ation brea	kdown	Big	P ZS
Suppleme	entary info	rmation:	0	GS	To	(3)		103	10	35

4.5.1	TABLE: Temperature rise meas	surements	OB ROS	P USS		
B. C.	Test Condition	: Test1: Battery cha	Test1: Battery charging and EUT working normally			
Re	Test Condition	: Test2: Battery disc	Test2: Battery discharging and EUT working normally			
- 1	t1 (°C)	: 44.9	45.0	B3-2-		
	t2 (°C)	: 45.1	45.1	P. 625		
			T (°C)			
	Temperature rise Dt of part/at:	Test1	Test2	Required Tmax (°C)		
PCB ne	ear U1	52.4	52.5	130		
Battery	surface	50.7	50.8	60		
Enclos	ure inside,	48.6	48.7	85		
Enclos	ure outside	46.7	46.9	85		

Version: V1.0 Page 32 of 53

Remark:

1) T shall not exceed (Tmax + Tamb - Tma), see clause 1.4.12.

T: is the temperature of the given part measured under the prescribed test conditions;

Tmax: is the maxnmum temperature specified for compliance with the test;

Tamb: is the ambient temperature during test;

Tma: is the maximum ambient temperature during permitted by the manufacturer's specification, see below 2).

2) The ambient temperature is $+45^{\circ}$ C.

Measured by thermocouple, transformer T1 is Class B material, see table 1.5.1 for details.

4.5.5	TABLE: Ball pressure test of thermopla	N		
	Required impression diameter (mm):	≤ 2 mm	2	Bee
Part		Test temperature (°C)	Impressi	on diameter (mm)
J73		135	(3)	- 7,65

Remark:

- 1) Test at 125°C or (T-Tamb+Tma+15°C).
- 2) Part subjected to the ball pressure test (IEC 60695-10-2) with impression diameter less than 2mm.

4.7	TABLE: Resistance to fire	160	1100	1.60	P
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
~	25 - 25	200	- 12-	3 3	18

5.1.6	TABLE: To	uch current measurer	T.Co	CN	
Condition	1	L → terminal A (mA)	N → terminal A (Ma)	Limit (mA)	Comments
<u>C(2)</u>	03	D (4)	5.5	- 23	- 5 25

Remark:

- 1) Under highest 1.1Rated_Voltage: 264V/60Hz.
- 2) The touch current
 - -on accessible parts ≤ 0.25 mA r.m.s;
 - -on earth ≤ 0.75 mA r.m.s for hand-held;
 - -≤ 3.5 mA rms for other equipment.

5.2 TABLE: Electric strength tests and im	pulse tests	B P
Test voltage applied between:	Test voltage (Vac)	Breakdown
+/- to enclosure	500	No
+/- to output	500	No

5.3	TABLE: Fault condition tests	PAG	
17/2	Ambient temperature (°C)	45.0	C5

Version: V1.0 Page 33 of 53

			and the second					
	Rated markin	gs of pow	er supply				Base	
No.	Component No.	Fault	Test voltage (V)	Test time	Fuse No.	Fuse current (A)	Result	
125	Battery B+ to B-	S-C	- 0	10mins	_B	3-	Unit shutdown imme Recoverable, No ha	10/1
2	Battery	O-C	3.7V===	7h25mins	1/2	100	Unit was protected,	No hazard
3	Battery	E-D		7h22mins		17. (2)	Unit was protected,	No hazard
4	U1(1-5)	S-C	5V=	10mins	3	Best	Unit shutdown imme Recoverable, No ha	and the second
5	C2	S-C	5V	10mins	35 33	-120	Unit shutdown imme Recoverable, No ha	CCA

Remark: after each fault condition, a electric strength test is followed, the unit not breakdown.

S-C: short circuit, O-C: Overcharging, E-D: Excessive discharging, O-L: Overload.

Version: V1.0 Page 34 of 53

ATTACHMENT 1		National Differences fo	r EN 60950-1	0.00
Clause	Requirement – Test	Re	esult – Remark	Verdict

	IMENT TO TEST REPORT IEC 60950-1
	P DIFFERENCES AND NATIONAL DIFFERENCES
Informa	ation technology equipment – Safety –
Bo Bo	Part 1: General requirements
Differences according to	EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013
Attachment Form No	EU_GD_IEC60950_1F
Attachment Originator	SGS Fimko Ltd
Master Attachment	Date 2014-02
Copyright © 2013 IEC System for Co	onformity Testing and Certification of Electrical Equipment
(IECEE), Geneva, Switzerland. All rig	
Total Control Control	A12:2011/A2:2013 – CENELEC COMMON MODIFICATIONS

Clause	Require	ment + Test	Bass	13/3	Result - Remar	k	Verdict	
RES	Clauses	Clauses, subclauses, notes, tables and figures which are additional to those in IEC60950-1 and it's amendmets are prefixed "Z"						
Contents (A2:2013)	Annex 2 their con Annex 2	rresponding E ZB (normative)	Normative uropean public Special nati	onal conditions	RES		Р	
General	Annex ZD (informative) IEC and CENELEC code designations for flexible cords Delete all the "country" notes in the reference document (IEC 60950-1:2005) according to the following list:							
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	190	
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	CSD	
	2.2.3	Note	2.2.4	Note	2.3.2	Note	- CE	
	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	13	
	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	Be	
	3.2.1.1	Note	3.2.4	Note 3.	2.5.1	Note 2	1	
	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note		
	4.7.3.1	Note 2	5.1.7.1	Note 3 & 4	5.3.7	Note 1		
	6	Note 2 & 5	6.1.2.1	Note 2	6.1.2.2	Note		
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	3	
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	6	
3.	G.2.1	Note 2	Annex H	Note 2	n.C	D U	30	
General (A1:2010)	1000	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A1:2010) according to the following list:						
(A1.2010)	1.5.7.1	Note	6.1.2.1	Note 2			Res	
	6.2.2.1	Note 2	EE.3	Note			1310	

Version: V1.0 Page 35 of 53

ATTACHMENT 1		National Diffe	erences for EN 60950-1	160
Clause	Requirement – Test	(5)	Result – Remark	Verdict

Clause	Requirement – Test	Result – Remark	Verdict
12	(3)	- 23	183
General (A2:2013)	Delete all the "country" notes in the reference doc 1:2005/A2:2013) according to the following list: 2.7.1 Note * 2.10.3.1 Note : 6.2.2. Note * Note of secretary: Text of Common Modification	28	Res Res
1.1.1 (A1:2010)	Replace the text of NOTE 3 by the following. NOTE 3 The requirements of EN 60065 may also requirements for multimedia equipment. See IEC multimedia equipment. For television sets EN 600	Guide 112, Guide on the safety of	N
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment:	Not such equipment.	S N S S S S S S S S S S S S S S S S S S
3 33 33 33 33 33 33 33	Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.		SS SS SS SS SS
(A12:2011)	In EN 60950-1:2006/A12:2011 Delete the addition of 1.3.Z1 / EN 60950-1:2006 Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	Deleted.	N S S
1.5.1 (Added info*)	Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC. New Directive 2011/65/11 *	Added.	J.P.

Version: V1.0 Page 36 of 53

ATTACHI	MENT 1 National Differences	tor EN 60950-1	300
Clause	Requirement – Test	Result – Remark	Verdict
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.	Added.	N
1.7.2.1 (A12.2011)	In EN 60950-1:2006/A12:2011 Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments.	Replaced.	N
	Zx Protection against excessive sound pressure fro	m personal music players	N
	This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players. A personal music player is a portable equipment for personal use, that: -is designed to allow the user to listen to recorded or broadcast sound or video; and -primarily uses headphones or earphones that can be worn in or on or around the ears; and -allows the user to walk around while in use. NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment. A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause. The requirements in this sub-clause are valid for music or video mode only.	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	SE S

Version: V1.0 Page 37 of 53

	HMENT 1 National Differences		100
Clause	Requirement – Test	Result – Remark	Verdict
		Not such equipment.	N
	longer exist. This exemption will not be extended to other technologies. For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.	3 LCS 3 LCS	LES LES
	Zx.2 Equipment requirements No safety provision is required for equipment that complies with the following: -equipment provided as a package (personal music player with its listening device), where the acoustic output LAeq,T is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and -a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1.		N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Version: V1.0 Page 38 of 53

ATTACHMENT 1 National Differences for EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
28	NOTE 1 Wherever the term acoustic output is	Not such equipment.	N
	used in this clause, the 30 s A-weighted	D BEST	180
	equivalent sound pressure level LAeq,T is meant.	35 785	- CE
	See also Zx.5 and Annex Zx.	23 23	B
	All other equipment shall:	ag Bag	Be
	a) protect the user from unintentional acoustic	Rec Rec	3 7
	outputs exceeding those mentioned above; and	USS US	5
	b) have a standard acoustic output level not	185	2,5
	exceeding those mentioned above, and	28	28
	automatically return to an output level not	333	Read
	exceeding those mentioned above when the	350	300
	power is switched off; and	650	035
	c) provide a means to actively inform the user of	, 23	0.03
	the increased sound pressure when the	3 33	33
	equipment is operated with an acoustic output	as Box	Rec
	exceeding those mentioned above. Any means	500	1.3
	used shall be acknowledged by the user before	(3)	70
	m. Leader and Leader	(C) (C)	3
	activating a mode of operation which allows for	523	3
	an acoustic output exceeding those mentioned	Real Brown	03
	above. The acknowledgement does not need to	1190	(50)
	be repeated more than once every 20 h of	USD.	135
	cumulative listening time; and	7,83	383
	NOTE 2 Examples of means include visual or	23	33
	audible signals. Action from the user is always	Bos	Beng
	required.	3 350	480
	NOTE 3 The 20 h listening time is the	(S)	~ G5
	accumulative listening time, independent how	25 7.25	0.15
	often and how long the personal music player has	23 523	P
	been switched off.	Page Ban	5 3
	d) have a warning as specified in Zx.3; and	Bes 10	7
	e) not exceed the following:	0.30	35
	1) equipment provided as a package (player	, CS	(CS)
	with Its listening device), the acoustic output	23	23
	shall be ≤ 100 dBA measured while playing the	BOG	Bos
	fixed "programme simulation noise" described	Res	350
13	in EN 50332-1; and	1.65	(35)
30	2) a personal music player provided with an	5 63	083
3	analogue electrical output socket for a listening	S Bas	Bag
	device, the electrical output shall be ≤ 150 mV	23 300	300
	measured as described in EN 50332-2, while	GO BEEN	n.C
0190	playing the fixed "programme simulation noise"	(C)	13

Version: V1.0 Page 39 of 53

ATTACHMENT 1 National Differences for EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
Clause	described in EN 50332-1. For music where the average sound pressure (long term LAeq,T) measured over the duration of the song is lower than the average produced by the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. In this case T becomes the duration of the song. NOTE 4 Classical music typically has an average sound pressure (long term LAeq,T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA.	Not such equipment.	N
3	For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only 65 dBA, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dBA.	BES BES BES	55 65 65 65 65 65 65
	Zx.3 Warning The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: -the symbol of Figure 1 with a minimum height of 5 mm; and -the following wording, or similar: "To prevent possible hearing damage, do not listen at high volume levels for long periods."	3 33 33 33 33 33 33 33 33 33 33 33 33 3	N.S.
3 38 38 383 383	Figure 1 – Warning label (IEC 60417-6044)	JES JES S JES JES JES	182 183 183 183

Version: V1.0 Page 40 of 53

ATTACE	ATTACHMENT 1 National Differences for EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
3 33 33 33 33	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.	Not such equipment.	N		
65 /	Zx.4 Requirements for listening devices (headphore	nes and earphones)	N		
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Zx.4.1 Wired listening devices with analogue input With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control). NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.	Not such equipment.	N S S S S S S S S S S S S S S S S S S S		
SES SES SES SES SES	Zx.4.2 Wired listening devices with digital input With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA. This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.). NOTE An example of a wired listening device with digital input is a USB headphone.	Not such equipment.	N S		
	 Zx.4.3 Wireless listening devices In wireless mode: - with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and -respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and 	LES LES LES LES	N S S S S S S S S S S S S S S S S S S S		

Version: V1.0 Page 41 of 53

ATTAC	HMENT 1 National Differences	for EN 60950-1	160
Clause	Requirement – Test	Result – Remark	Verdict
2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	-with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the abovementioned programme simulation noise, the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA. NOTE An example of a wireless listening device is a Bluetooth headphone.	Not such equipment.	S N S S S S S S S S S S S S S S S S S S
3 33 33 33 33 33 33 33 33 33 33 33 33 3	Zx.5 Measurement methods Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s. NOTE Test method for wireless equipment provided without listening device should be defined.	Not such equipment.	LES LES
2.7.1	Replace the subclause as follows: Basic requirements To protect against excessive current, short- circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short- circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED	Replaced	
(35) (35)	EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection,	S 183 83 183	REE

Version: V1.0 Page 42 of 53

ATTACHMENT 1		National Differences for EN 60950-1		160	
Clause Requirement – Test		(5)	Result – Remark	Verdict	
2	0.30	(3)	(ES) (ES)	. 23	

Clause	Nequilement - Test	Result – Remark	verdict
35 163 163 163 163	e.g. fuses or circuit breakers, is fully specified in the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	5 53 63 163 163 163 163 163 163	N
2.7.2	This subclause has been declared 'void'.	0.00	N
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	Deleted.	SN
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2". In Table 3B, replace the first four lines by the following: Up to and including 6 0,75 a) Over 6 up to and including 10 (0,75) 1,0 Over 10 up to and including 16 (1,0) c) 1,5 I In the conditions applicable to Table 3B delete the words "in some countries" in condition a). In NOTE 1, applicable to Table 3B, delete the second sentence.	Replaced.	
3.2.5.1 (A2:2013)	NOTE Z1The harmonised code designations corresponding to the IEC cord types are given in Annex ZD	3 33 35 35	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	Deleted.	N
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and	Added.	S N S S S S S S S S S S S S S S S S S S

Version: V1.0 Page 43 of 53

ATTACHI	MENT 1 National Differences	for EN 60950-1	30
Clause	Requirement – Test	Result – Remark	Verdict
35 363 363	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).	3 JES JES JES JES	N
P.C.S.	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	LES LES	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.	Replaced	N S S S S S S S S S S S S S S S S S S S
Bibliograph y	Additional EN standards.	183 183	- 0

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR				
)	CORRESPON	NDING EUROPEAN	PUBLICATIONS	Bag	Ro
3	1303	1900	Bank	Becom	Reco

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
Clause	Requirement + Test	Result - Remark	Verdict
1.2.4.1	In Denmark, certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.	Evaluated during national approval	NG
1.2.13.14 (A11:2009)	In Norway and Sweden, for requirements see 1.7.2.1 and 7.3 of this annex.	183 183	N
1.5.7.1 (A11:2009)	In Finland, Norway and Sweden, resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.	163 163 163 163	S N

Version: V1.0 Page 44 of 53

ATTACHMENT 1 National Differences for EN 60950-1			nes .
Clause	Requirement – Test	Result – Remark	Verdict
1.5.8	In Norway, due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	N
1.5.9.4	In Finland, Norway and Sweden, the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.	No such construction	N
1.7.2.1	In Finland, Norway and Sweden, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"	Evaluated during national approval	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
1.7.2.1 (A11:2009)	NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 Kv r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway): "Utstyr isal koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV is, kan forårsake brannfare. For å unngå dette isa lle ved tilkopling av utstyret til kabel-TV nettet isa llers en galvanisk isolator mellom utstyret og kabel- TV nettet."	183 183	S. S

Version: V1.0 Page 45 of 53

ATTACH	ATTACHMENT 1 National Differences for EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
(2)	(2) (2)	5 23	23	
35 185 185 185 185 185	Translation to Swedish: "Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan I i fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustninger och kabel-TV nätet."	163	N	
1.7.2.1 (A2:2013)	In Denmark, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection of other equipment or a network shall, if safety reliance on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text in Denmark shall be as follows In Denmark: "Apparatets stikprop skal tilsluttes stikkontakt med jord, som giver forbindelse til stikproppens jord."	rk o	N S S S S S S S S S S S S S S S S S S S	
1.7.5 (A11:2009)	In Denmark, socket-outlets for providing power 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 1b or DK 1-5a. For CLASS II EQUIPMENT the socket outlet she in accordance with Standard Sheet DKA 1-4	1-	N SS SS SS SS SS SS SS SS SS SS SS SS SS	
1.7.5 (A2:2013)	In Denmark, socket-outlets for providing power other equipment shall be in accordance with the DS 60884-2-D1:2011. For class I equipment the following Standard Sheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exception for STATIONARY EQUIPMENT where the socket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a.	to e	N 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	

Version: V1.0 Page 46 of 53

ATTACHMENT 1		National Differences for EN 60950-1		0.00
Clause	Requirement – Test		Result – Remark	Verdict

(2)	Troquilotticitic Tool	- toodin - to, many	120
ES PES PES PES PES	Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with by DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b. Justification the Heavy Current Regulations, 6c	No socket-outlet provided.	N
2.2.4	In Norway, for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	No TNV.	N
2.3.2	In Finland, Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	No TNV.	SSN SS
2.3.4	In Norway, for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	No TNV.	N
2.6.3.3	In the United Kingdom, the current rating of the circuit shall be taken as 13 A, not 16 A.	LES LES	N
2.7.1	In the United Kingdom, to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.	LES	P \\ 3 3 3 3 3 3 3 3 3 3
2.10.5.13	In Finland, Norway and Sweden, there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	No TNV.	N
3.2.1.1	In Switzerland, supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets: SEV 6532-2.1991 Plug Type 15 3 P+N+PE 250/400 V, 10A 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,	Les	N N

Version: V1.0 Page 47 of 53

ATTACHMENT 1 National Differences for EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
	In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998: SEV 5932-2.1998: Plug Type 25, 3L+N+PE 230/400 V, 16 A SEV 5933-2.1998: Plug Type 21, L+N, 250V, 16A SEV 5934-2.1998: Plug Type 23, L+N+ PE 250V, 16 A	3 35 35 35 363 363 363 363 363	N N N N N N N N N N N N N N N N N N N
3.2.1.1	In Denmark, supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.		
3.2.1.1 (A2:2013)	In Denmark, 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.	Tes Tes	N 13 33 33 33 33 33 33 33 33 33 33 33 33 3

Version: V1.0 Page 48 of 53

	HMENT 1 National Differences		190
Clause	Requirement – Test	Result – Remark	Verdict
38 38 38 38 38 38 38 38 38 38	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	3 33 33 33 33 33 33 33 33 33 33 33 33 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
3.2.1.1	In Spain, supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994. 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.	JES JES JES JES JES JES JES JES	ICE N BESS BESS BESS BESS BESS BESS BESS BES
3.2.1.1	In the United Kingdom, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations. NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	3 33 33 33 33 33 33 33 33 33 33 33 33 3	S S S S S S S S S S S S S S S S S S S

Version: V1.0 Page 49 of 53

Clause	Requirement – Test	Result – Remark	11
2		Result – Remark	Verdict
	(2) (2)	28	23
3.2.1.1	In Ireland, apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.	5 5 65 65 165 165 165 165	N.S.
3.2.4	In Switzerland, for requirements see 3.2.1.1 of this annex.	US3 B	S N
3.2.5.1	In the United Kingdom, a power supply cord with conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.	3 3 3 8 8 8 8 8	N N
3.3.4	In the United Kingdom, the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is: • 1,25 mm² to 1,5 mm² nominal cross-sectional area.	LES LES	N
4.3.6	In the United Kingdom, the torque test is	B-33 B	N
) ,3 ,63 ,163 ,163 ,163	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.	3 163 3 163 33 163 163 163 163 163	LES LES LES
4.3.6	In Ireland, DIRECT PLUG-IN EQUIPMENT is	Bec 11	N
3 53 CS	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.	135 135 135 1363	ુહુક હુકક હુકક

Version: V1.0 Page 50 of 53

ATTACHMENT 1 National Differences for EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
5.1.7.1	In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT	3 163 163 163 163 163 163 163 163 163	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
RES RES	TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT.	LES LES	73
6.1.2.1 (A1:2010)	In Finland, Norway and Sweden, add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either -two layers of thin sheet material, each of which shall pass the electric strength test below, or -one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	No TNV.	N SS SS SS SS SS SS SS SS SS SS SS SS SS

Version: V1.0 Page 51 of 53

ATTACI	ATTACHMENT 1 National Differences for EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
35 35 365 365 365	-passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and -is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	RS RS	
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b). It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2. A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions: -the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1; -the additional testing shall be performed on all the test specimens as described in EN 60384-14: -the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.		N S S S S S S S S S S S S S S S S S S S	
6.1.2.2	In Finland, Norway and Sweden, the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.	No TNV	N 3	
7.2	In Finland, Norway and Sweden, for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	Not connected to cable distribution system.	N N	

Version: V1.0 Page 52 of 53

ATTACH	MENT 1 National Difference	National Differences for EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
7.3	In Norway and Sweden, for requirements see	Not connected to cable	N
(A11:2009)	1.2.13.14 and 1.7.2.1 of this annex.	distribution system.	17.00

Annex ZD (informative)

IEC and CENELEC code designations for flexible cords

Type of flexible cord	Code	designations
3 3 3 3 3	IEC	CENELEC
PVC insulated cords	Bee	160
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60277 IEC 53	H05VV-F H05VVH2-F
Rubber insulated cords	1500 h	Go US
Braided cord	60245 IEC 51	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility	Bes	Bess
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H

Version: V1.0 Page 53 of 53

Photo Documentation

View: Model:

DW-007Fit+

[X]General

[]Front

[]Rear

]Internal

. []Top

[]Bottom

[]PWB

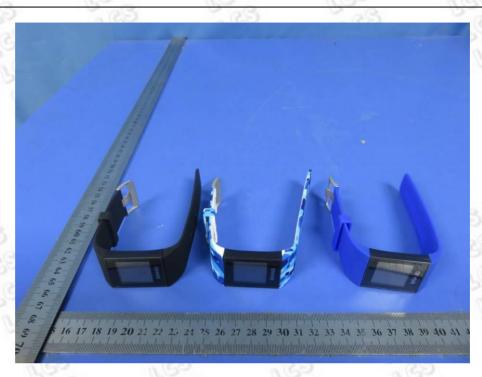


Figure 1

View:

[X]General []Front

[]Rear

[]Internal

[]Top

[]Bottom []PWB



Figure 2

Photo Documentation

View:

- [X]General
- []Front
- []Rear
- []Internal
- []Top
- []Bottom
- []PWB



Figure 3

View:

- [X]General
- []Front
- []Rear
- []Internal
- []Top
- []Bottom
- []PWB



Figure 4

Photo Documentation

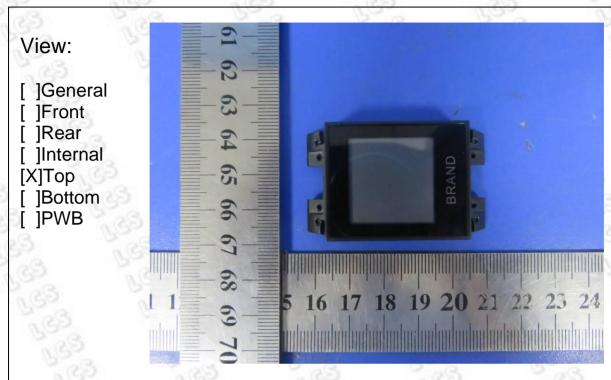
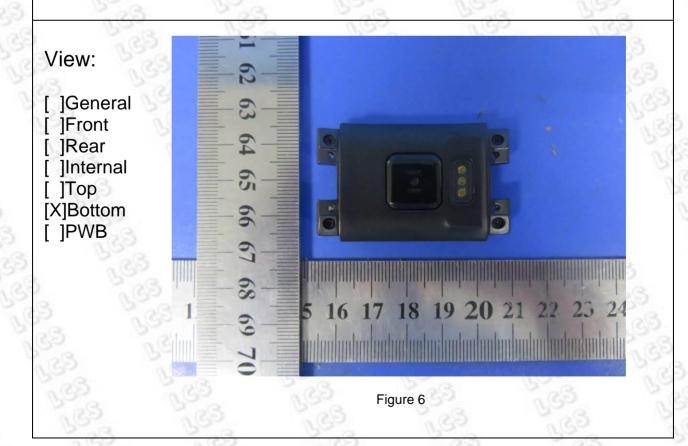


Figure 5

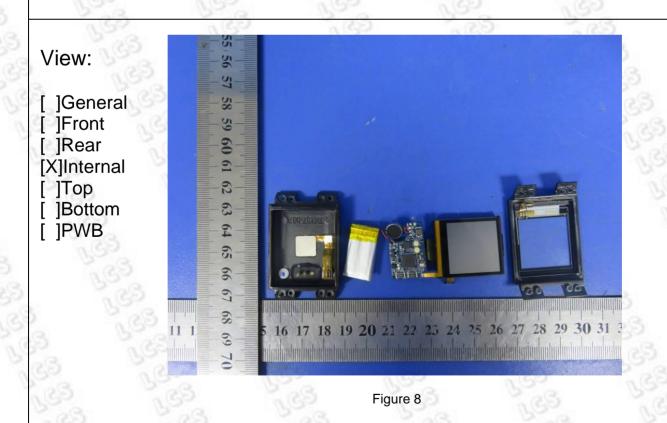


Version: V1.0 Page 3 of 5

Photo Documentation



Figure 7



Version: V1.0 Page 4 of 5

Photo Documentation

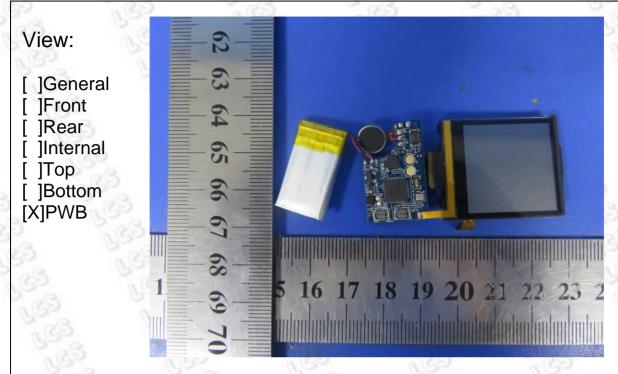
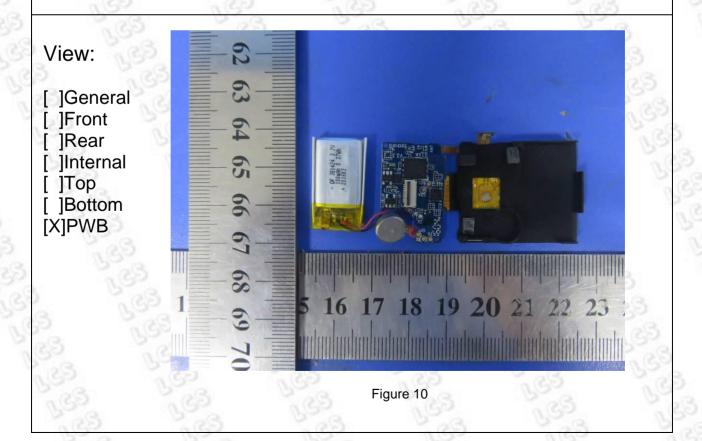


Figure 9



Version: V1.0 Page 5 of 5