

# **Safety Test Report**

Report No.: AGC10385170801ES01

**PRODUCT DESIGNATION**: Vogue Headphone

**BRAND NAME** : N/A

**MODEL NAME** : P326.542

**CLIENT**: Xindao B.V.

**DATE OF ISSUE** : Sep. 05, 2017

**STANDARD(S)** : EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

**REPORT VERSION**: V1.0

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

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Page 2 of 52

# **TEST REPORT**

## EN 60950-1

Information technology equipment-Safety-Part 1: General requirements

Report Reference No...... AGC10385170801ES01

Tested by (+ signature) ...... Devin Ren

Reviewed by (+ signature) ...... Jenny Li

Devin Ren Jennyli mette He

Matte He Approved by (+signature) .....

(Authorized Officer)

Date of issue ...... Sep. 05, 2017

Contents...... Total 52 pages.

Testing laboratory

Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China

Testing location...... Same as above.

Manufacturer

Name.....: Xindao B.V.

Address ...... P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

**Factory** 

Name.....: Xindao B.V.

Address ...... P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

**Test specification** 

Standard...... EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

Test procedure ...... Type test

Procedure deviation...... N/A

Non-standard test method...... N/A

Test Report Form/blank test report

Test Report Form No...... AGC60950A8

Test Report Form(s) Originator....... AGC

Master TRF ...... Dated 2017-01

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Page 3 of 52

Test item	-C -C
Product designation Vo	ogue Headphone
Brand name N/	
Test model P3	326.542
Series model N/	/A = 300 LG
Rating(s) 5.0	.0V === , 0.5A (Supplied by USB port)
Particulars	
Equipment mobility	
Connection to the mains	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
43.00	permanent connection
-C	☐detachable power supply cord☐non-detachable power supply cord
9	⊠not directly connected to the mains
Operating condition	: 🖂 continuous
-C3	☐rated operating/ resting time:  □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Access location	☐restricted access location
Over voltage category(OVC)	
Mains supply tolerance(%) or absolute ma	IV/A
Tested for IT power systems	:: □Yes ⊠No
IT testing, phase-phase voltage(V)	
Class of Equipment	. □Class I □Class II □Class III □not classified
Considered current rating of protective do f the building installation (A)	N/A
Pollution degree(PD)	: □PD 1 □PD3
Protection against ingress of water	: IPX0
Altitude during operation (m)	: 2000m
Altitude of test laboratory (m)	: <500m
Mass of equipment (kg)	: Less 1kg
Test case verdicts	
Test case does not apply to the test objec	新 · · · · · · · · · · · · · · · · · · ·
Test item does meet the requirement	P (ass)
Test item does not meet the requirement.	F (ail)
Testing	
Date of receipt of test item	: Aug. 30, 2017
Date(s) of performance of test	: Aug.31 – Sep. 05, 2017

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Page 4 of 52

#### Attachment

Attachment A...... Photos of product

#### General remarks

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

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

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

'(See appended table)" refers to a table appended to the report.

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

Report Revise Record:						
Report Version	Revise Time	Issued Date	Valid Version	Notes		
V1.0	1 - 5	Sep. 05, 2017	Valid	Original report		

# General product information

The product supplied by build-in Lithium-ion Polymer battery, and charged from Micro-B USB port and is considered moveable and Class III (supplied by SELV).

Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.

The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of

### Summary of testing

The test item passed.

# Copy of marking plates

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

> Vogue Headphone Model: P326.542

Xindao B.V.

P.O. Box 3082, 2280 GB,

Rijswijk, The Netherlands

# Remark:

- 1) The CE marking and WEEE symbol (if any) should be at least 5mm and 7mm respectively in height.
- 2) The markings and instructions are the minimum requirements required by safety standard. For final production samples, the additional markings which do not give rise to misunderstanding may be added.
- 3) As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or mark and the postal address will be marked on the products before being place on the market.
- 4) Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.

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Page 5 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
1	111	The The State of t	手机	
1	GENERAL	- C - C	Р	
他		100		
1.5	Components	- T	Р	
1.5.1	General	投票 学	P	
,C**	Comply with IEC 60950 or relevant component standard	Components which were found to affect safety aspects comply with the requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. (see appended table 1.5.1)		
1.5.2	Evaluation and testing of components	Components which are certified to IEC/EN and/or national standards are used correctly within their ratings. Components not covered by IEC/EN standards are tested under the conditions present in the equipment.	PC	
1.5.3	Thermal controls	No any thermal controls.	N	
1.5.4	Transformers	No transformers.	N	
1.5.5	Interconnecting cables	Cable to other unit is carrying only SELV voltages on and energy level below 240VA	Р	
1.5.6	Capacitors bridging insulation	No such capacitor.	N	
1.5.7	Resistors bridging insulation	No such components.	N	
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	5 th - C.	N	
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	700 YO	N	
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable	不是 <sup>那</sup> 東京玩	N	
1.5.8	Components in equipment for IT power systems	43 CO N	N	
1.5.9	Surge suppressors	No such parts.	N	
1.5.9.1	General	711	N	
1.5.9.2	Protection of VDRs	The state of the s	N	
1.5.9.3	Bridging of functional insulation by a VDR		N	
1.5.9.4	Bridging of basic insulation by a VDR	CO P	N	
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	L BE TE	N	

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Page 6 of 52

EN 60950-1						
Clause	Clause Requirement – Test Result – Remark Verdic					
1.6	Power interface	10000000000000000000000000000000000000	P			
1.6.1	AC power distribution systems	No direct mains connection.	N			
1.6.2	Input current	(See appended table 1.6.2)	Р			
1.6.3	Voltage limit of hand-held equipment	9 10 10	N			
1.6.4	Neutral conductor	Class III equipment, no neutral conductor.	N			

1.7	Marking and instructions		P
1.7.1	Power rating	See below	P
30	Rated voltage(s) or voltage range(s) (V)	5.0V(no show)	
恒	Symbol for nature of supply, for d.c. only:	= (no show)	
The state of the s	Rated frequency or rated frequency range (Hz):	CO DO	
and the same	Rated current (mA or A):	0.5A (no show)	
1.7.1.2	Identification markings	The The state of t	P
梅	Manufacturer's name or trademark or identification mark	Xindao B.V.	
- F The con	Type/model or type reference:	P326.542	
The same of the sa	Symbol for Class II equipment only	Class III equipment	
	Other marking and symbols:	See marking plate.	
1.7.1.3	Use of graphical symbols	90, 100	Р
1.7.2	Safety instructions and marking	Provided	Р
1.7.2.1	General	See below.	P
1.7.2.2	Disconnect devices	No such devices	N N
1.7.2.3	Overcurrent protective device	- GO	N
1.7.2.4	IT power distribution systems		M N
1.7.2.5	Operator access with a tool	T. T.	N
1.7.2.6	Ozone	a the second of	N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	) N
1.7.4	Supply voltage adjustment:	No such devices used	JA N
	Methods and means of adjustment; reference to installation instructions:	, C	N
1.7.5	Power outlets on the equipment:	- 60	N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)		N
1.7.7	Wiring terminals	The state of the s	N

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Pa	q	Э.	7	of	5	52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment, no protective earthing	N
1.7.7.2	Terminal for a.c. mains supply conductors	C. C.	N
1.7.7.3	Terminals for d.c. mains supply conductors	100 10	N
1.7.8	Controls and indicators	6	P
1.7.8.1	Identification, location and marking:	It is obviously unnecessary.	N
1.7.8.2			P
1.7.8.3	Symbols according to IEC 60417	- 10	N
1.7.8.4	Markings using figures	Not applicable.	o ed Carellin
1.7.9	Isolation of multiple power sources:	No direct connection to mains supply	N
1.7.10			N
1.7.11	Durability	The marking withstands required tests.	<b>∪</b> P
1.7.12	Removable parts	No such parts.	N
1.7.13	Replaceable batteries	Non-replaceable battery	N
pace :	Language(s)	The state of the s	
1.7.14	Equipment for restricted access locations:	C**	N

2	PROTECTION FROM HAZARDS		P®
2.1	Protection from electric shock and energy hazards	No hazardous parts in operator access areas.	Р
2.1.1	Protection in operator access areas	100	Р
2.1.1.1	Access to energized parts	No energized parts.	Р
	Test by inspection	· · · · · · · · · · · · · · · · · · ·	
	Test with test finger(Figure 2A)	# 3h	
22	Test with test pin (Figure 2B)		
	Test with test probe (Figure 2C)		
2.1.1.2	Battery compartments		N
2.1.1.3	Access to ELV wiring	a financial	N
E III	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	CC NO	
2.1.1.4	Access to hazardous voltage circuit wiring	上	N
2.1.1.5	Energy hazards	No energy hazard in operator access area.	Р

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Page 8 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
2.1.1.6	Manual controls	10000000000000000000000000000000000000	N
2.1.1.7	Discharge of capacitors in equipment	No primary circuit.	N
	Time-constant (s); measured voltage (V)	- C	
2.1.1.8	Energy hazards – d.c. mains supply	Not directly connect to mains supply	N
station of G	a)Capacitor connected to the d.c. mains supply:	11 不是	N
-70	b)Internal battery connected to the d.c. mains supply:	C. T. T. T. C. C. T. C.	N
2.1.1.9	Audio amplifiers	No any amplifiers	N
2.1.2	Protection in service access areas		N
2.1.3	Protection in restricted access locations	A TO THE STATE OF	a de Calada N

2.2	SELV circuits	40°	P
2.2.1	General requirements	42.4V peak or 60VDC are not exceeded in SELV circuit under normal operation or single fault condition.	P
2.2.2	Voltages under normal conditions (V)	Within SELV limits.	Р
2.2.3	Voltages under fault conditions (V)	Within SELV limits.	∰ P
2.2.4	Connection of SELV circuits to other circuits:	The state of the s	N

2.3	TNV circuits	00	N
2.3.1	Limits	No TNV circuits.	N
00	Type of TNV circuits:	10000000000000000000000000000000000000	N
2.3.2	Separation from other circuits and from accessible parts	CC CO	N
2.3.2.1	General requirements		M N
2.3.2.2	Protection by basic insulation	The state of the s	N
2.3.2.3	Protection by earthing	· ·	N
2.3.2.4	Protection by other constructions	- 18 NO N	N
2.3.3	Separation from hazardous voltages		N
30	Insulation employed:		N
2.3.4	Connection of TNV circuits to other circuits	- C -	N
AL AL	Insulation employed:	-C*	N
2.3.5	Test for operating voltages generated externally		N

2.4	Limited current circuits	D. The state of th	- 年。	CN

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Page 9 of 52

	EN 60950-1				
Clause	ause Requirement – Test Result – Remark				
2.4.1	General requirements	No limited current circuits to be evaluated.	N		
2.4.2	Limit values		N		
1/2	Frequency (Hz)	, , , , , ,	N		
F Made Com	Measured current (mA)		N		
and the latest of the latest o	Measured voltage (V)	T. T. S.	N		
-111	Measured capacitance (nF or μF)	The State of the S	N		
2.4.3	Connection of limited current circuits to other circuits	De For Di	N		

2.5	Limited power sources	The state of the s	N
不怕	a)Inherently limited output	C.	N
Santon of Gines	b)Impedance limited output	GO	N
S	c)Regulating network limited output under normal operating and single fault condition	<b></b> 我想想	N
	d)Overcurrent protective device limited output	C SE C	N
辛死粒	Max. output voltage (V), max. output current (A), max. apparent power (VA):	NO T	
Name of the last o	Current rating of overcurrent protective device (A)	环·范	N
	Use of integrated circuit (IC) current limited	- 5 T. 100 - 5 T. 100	N

2.6	Provisions for earthing and bonding		N
2.6.1	Protective earthing	Class III equipment.	N
2.6.2	Functional earthing	K. San	N
(相)	Use of symbol for functional earthing	300	N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General	The transfer of the state of th	N
2.6.3.2	Size of protective earthing conductors	- 10°	N
- Ci**	Rated current (A), cross-sectional area (mm2), AWG		N 1
2.6.3.3	Size of protective bonding conductors	· 10 10 10 10 10 10 10 10 10 10 10 10 10	N
10 m	Rated current (A), cross-sectional area (mm2), AWG:	-C# 100	N
2.6.3.4	Resistance of earthing conductors and their terminations, resistance( $\Omega$ ), voltage drop(V),test current (A), duration(min)	No. of the last of	N
2.6.3.5	Colour of insulation		N

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Clause 2.6.4

2.6.4.1

2.6.4.2

2.6.4.3

2.6.5

2.6.5.1

2.6.5.2

2.6.5.3

2.6.5.4

2.6.5.5

2.6.5.6

2.6.5.7

2.6.5.8

and protective bonding conductors

Disconnection of protective earth

Parts removed during servicing

Screws for protective bonding

Corrosion resistance

distribution system

Components in protective earthing conductors

Reliance on telecommunication network or cable

Parts that can be removed by an operator

Integrity of protective earthing

Interconnection of equipment

Report No.: AGC10385170801ES01 Page 10 of 52

N

N

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N

	EN 60950-1			
Requirement – Test		Result – Remark		Verdict
Terminals		拉那	10000000000000000000000000000000000000	N
General	11/2	The Property of the State of th	学。	N
Protective earthing and bond	ing terminals	, .C	40	N
Rated current (A), type and n diameter (mm)		No	极	N
Separation of the protective of from protective bonding cond	earthing conductor uctors	五 环 拉 淵	C The state of the	N
11113		All Control		

2.7	Overcurrent and earth fault protection in primary circuits			N
2.7.1	Basic requirements	No primary circuits.		N
<sup>3</sup>	Instructions when protection relies on building installation		不 性 测	NE
2.7.2	Faults not covered in 5.3.7	<b>不</b>	-	N
2.7.3	Short-circuit backup protection	60	100	N
2.7.4	Number and location of protective devices:			N
2.7.5	Protection by several devices	100	不知	N
2.7.6	Warning to service personnel	The Comment	The same of the sa	N

2.8	Safety interlocks		N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
2.8.3	Inadvertent reactivation		N
2.8.4	Fail-safe operation	100	N
- (	Protection against extreme hazard	· · · · · · · · · · · · · · · · · · ·	N
2.8.5	Moving parts	- Farmer Francisco	N

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Report No.: AGC10385170801ES01 Page 11 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
2.8.6	Overriding	大枝 枝形	N	
2.8.7	Switches and relays	The transfer of the state of th	N	
2.8.7.1	Contact gaps (mm)	-C - C	N N	
2.8.7.2	Overload test	10, 10	N	
2.8.7.3	Endurance test		N N	
2.8.7.4	Electric strength test	不是 第	N	
2.8.8	Mechanical actuators	1 TO	N	

2.9	Electrical insulation		Th P
2.9.1	Properties of insulating materials	The state of the s	P
2.9.2	Humidity conditioning	C. 100	N
E afford Grown	Humidity (%),temperature (°C):	AGO DE	
2.9.3	Grade of insulation	Functional insulation.	P
2.9.4	Separation from hazardous voltages	T. W. Commercial Comme	N
	Method(s) used	-C*	<u> </u>

2.10	Clearances, creepage distances and distances	through insulation	N
2.10.1	General	Only SELV circuits inside the EUT. Functional insulation evaluated in accordance with clause 5.3.4. c).	N
in the second	Frequency	O SO	N
-0	Pollution degrees		N
0	Reduced values for functional insulation	不是 一	N
3/5 <sub>0</sub> 1	Intervening unconnected conductive parts	2.C.	N
The comme	Insulation with varying dimensions	100	N
etalion,	Special separation requirements	到 不完	N
170	Insulation in circuits generating starting pulses	The Bearing Street Street	N
2.10.2	Determination of working voltage		N
2.10.3	Clearances		N
2.10.3.1	General	111	N
2.10.3.2	Mains transient voltages	The state of the s	N
:111	a)AC mains supply:	C****	N
Complance	b)Earthed d.c. mains supplies	700 E	N
	c)Unearthed d.c. main supplies		N
16	d)Battery operation	The state of the s	N

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Report No.: AGC10385170801ES01 Page 12 of 52

	EN 60950-1		•
Clause	Requirement – Test	Result – Remark	Verdict
2.10.3.3	Clearances in primary circuits	10000000000000000000000000000000000000	N
2.10.3.4	Clearances in secondary circuits	The state of the s	N
2.10.3.5	Clearances in circuits having starting pulses	C C	N
2.10.3.6	Transients from a.c. mains supply:		N
2.10.3.7	Transients from d.c. mains supply:	TA 1	N
2.10.3.8	Transients from telecommunication networks and cable distribution systems	THE COMMENT	N
2.10.3.9	Measurement of transient voltage levels		N
A 4 7	a)Transients from a mains supply		N
30	For a.c. mains supply	也 不是一	N
梅草	For d.c. mains supply:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
F Marianton	b)Transients from	CO. So	N
2.10.4	Creepage distances		N
2.10.4.1	General	<b>环</b>	N
2.10.4.2	Material group and comparative tracking index		N
不绝	CTI tests	- CO D	N
2.10.4.3	Minimum creepage distances		₩ N
2.10.5	Solid insulation	· · · · · · · · · · · · · · · · · · ·	N
2.10.5.1	General	C.* - C.*	N
2.10.5.2	Distances through insulation	00 100	N
2.10.5.3	Insulation compound as solid insulation	1	N
2.10.5.4	Semiconductor device	The state of the s	N
2.10.5.5	Cemented joints	Simulation of State o	N
2.10.5.6	Thin sheet material - General	100	N
2.10.5.7	Separable thin sheet material		N N
10	Number or layers(pcs)	超测 手系	N
2.10.5.8	Non-separable thin sheet material	# 3 C 3	= N
2.10.5.9	Thin sheet material – standard test procedure		N
C The said	Electric strength test		N
2.10.5.10	Thin sheet material – alternative test procedure	我想 不抱。	N
-A	Electric strength test	-6	N
2.10.5.11	Insulation in wound components	. CO	N
2.10.5.12	Wire in wound components	11	N
10	Working voltage	K 性	N
	a)Basic insulation not under stress:	The state of the s	ON

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Report No.: AGC10385170801ES01 Page 13 of 52

01-	EN 60950-1	D. H. D I	17
Clause	Requirement – Test	Result – Remark	Verdict
10	b)Basic, supplementary, reinforced insulation:	大艺 天艺	N
	c)Compliance with Annex U	The transfer of the second of	N
不起型	Two wires in contact inside wound component; angle between 45° and 90°	CC NOC	N
2.10.5.13	Wire with solvent-based enamel in wound components	T. T	N
-dil	Electric strength test	T. T. Comments	N
S. Proposition	Rountine test	- 3. CO N	N
2.10.5.14	Additional insulation in wound components		N
C	Working voltage	- N	N
	-basic insulation not under stress	- C*	N
不是	-Supplementary, reinforced insulation:	-C**	N
2.10.6	Construction of printed boards	NO P	N
2.10.6.1	Uncoated printed boards	也到 不是	N
2.10.6.2	Coated printed boards	The state of the s	N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	CO. De	N
2.10.6.4	Insulation between conductors on different layers of a printed board	下。	N
-0	Distance through insulation	C 3 - C 3	N
The state of the s	Number of insulation layers(pcs)	00	N
2.10.7	Component external terminations	10	N
2.10.8	Tests on coated printed boards and coated components	大意思 表示 T	N
2.10.8.1	Sample preparation and preliminary inspection	60 . 60	N
2.10.8.2	Thermal conditioning	200	M N
2.10.8.3	Electric strength test	11	N
2.10.8.4	Abrasion resistance test	The second of th	N
2.10.9	Thermal cycling	- * CO S	N
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N. T
2.10.11	Test for semiconductor devices and cemented joints	A S. F. CO	N
2.10.12	Enclosed and sealed parts	CO "	N

3	WIRING, CONNECTION	NS AND SUPPLY	不懂。	不是	P
3.1	General	The transmission	E TO O COOL	- Barrier SC	Р

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No.16 E

AGC 8



Report No.: AGC10385170801ES01 Page 14 of 52

	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
3.1.1	Current rating and overcurrent protection	Adequate cross sectional areas on internal wiring. No internal wire for primary power distribution.	P		
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges that could damage the insulation and cause hazard.	Р		
3.1.3	Securing of internal wiring	Internal wiring is reliable secured	P		
3.1.4	Insulation of conductors	The insulation of the individual conductors is suitable for the application and the working voltage.	P		
3.1.5	Beads and ceramic insulators	30	N		
3.1.6	Screws for electrical contact pressure		N		
3.1.7	Insulating materials in electrical connections	THE STATE OF THE S	N		
3.1.8	Self-tapping and spaced thread screws	C * 100	N		
3.1.9	Termination of conductors	0	N		
. (4	10 N pull test		N		
3.1.10	Sleeving on wiring	The state of the s	N		

3.2	Connection to a mains supply		N
3.2.1	Means of connection	Class III equipment	N
3.2.1.1	Connection to an a.c. mains supply	The state of the s	N
3.2.1.2	Connection to a d.c. mains supply	60	N
3.2.2	Multiple supply connections	10	N
3.2.3	Permanently connected equipment	测度测	N
(D) 1/1	Number of conductors, diameter (mm) of cable and conduits	C. C.	
3.2.4	Appliance inlets	100 10	N
3.2.5	Power supply cords	也	N
3.2.5.1	AC power supply cords	The state of the s	N
	Type	c.C	
- T	Rated current (A), cross-sectional area (mm²), AWG:	C YO Y	
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief	in the state of th	N
根型	Mass of equipment (kg), pull (N)	2.C 30	
Coun	Longitudinal displacement (mm)	NO I	
3.2.7	Protection against mechanical damage	报题 K 整	N
3.2.8	Cord guards	- 4 The State of t	ON

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Report No.: AGC10385170801ES01 Page 15 of 52

	EN 00050 4		
	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
\G'	D (mm); test mass (g)	大电影 电影	
	Radius of curvature of cord (mm)	A Table	
3.2.9	Supply wiring space	1 2.0°	N

3.3	Wiring terminals for connection of external conductors		N
3.3.1	Wiring terminals	<b>从整</b>	N
3.3.2	Connection of non-detachable power supply cords	100 N	N
3.3.3	Screw terminals		N
3.3.4	Conductor sizes to be connected	不是 第二	N
环境	Rated current (A), cord/cable type, cross-sectional area (mm²)	-C************************************	
3.3.5	Wiring terminal sizes		N
),C	Rated current (A), type and nominal thread diameter (mm)	<b>工</b> 工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工	
3.3.6	Wiring terminals design	-C*	N
3.3.7	Grouping of wiring terminals	10	N
3.3.8	Stranded wire	板型 不肯	Ν

3.4	Disconnection from the mains supply		
3.4.1	General requirement	Class III equipment	N
3.4.2	Disconnect devices		N
3.4.3	Permanently connected equipment	大型····································	N
3.4.4	Parts which remain energized	-0" 30	N
3.4.5	Switches in flexible cords	100	N
3.4.6	Single-phase equipment and d.c. equipment		N
3.4.7	Three-phase equipment	The state of the s	N
3.4.8	Switches as disconnect devices	4.0°	N
3.4.9	Plugs as disconnect devices	-, O " D	N
3.4.10	Interconnected equipment	70	N N
3.4.11	Multiple power sources	· 电	N

3.5	Interconnection of equipment	100	Р
3.5.1	General requirements		Р
3.5.2	Types of interconnection circuits	SELV circuit only.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnections.	N

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Report No.: AGC10385170801ES01 Page 16 of 52

	EN	60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
3.5.4	Data ports for additional equipment		N

4	PHYSICAL REQUIREMENTS		CO"	Р
4.1	Stability	10		N
atation of G	Angle of 10°	- mil	不恒	N
	Test: force (N)	The Manual Control	# 1 CO	N

Mechanical strength		P
General	See below	Tr P
Rack-mounted equipment.	10000000000000000000000000000000000000	N
Steady force test, 10 N	C.**	N
Steady force test, 30 N	CO	N
Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	P
Impact test	-3	N
Fall test	30	N
Swing test		₩ N
Drop test; height(m):	1m; No damage of the enclosure, no energy hazards or damage to enclosure integration after the test.	P
Stress relief test	70°C, 7hours, no hazard.	Р
Cathode ray tubes	No cathode ray tube.	N
Picture tube separately certified	· 格克	N
High pressure lamps	No high pressure lamp	N
Wall or ceiling mounted equipment; force (N):	100 100	N
	General Rack-mounted equipment. Steady force test, 10 N Steady force test, 30 N Steady force test, 250 N Impact test Fall test Swing test Drop test; height(m)	General See below  Rack-mounted equipment.  Steady force test, 10 N  Steady force test, 30 N  Steady force test, 250 N  Steady force test, 250 N  Impact test  Fall test  Swing test  Drop test; height(m)

4.3	Design and construction		P
4.3.1	Edges and corners	Edges and corners are rounded.	Р
4.3.2	Handles and manual controls; force (N)	C	N
4.3.3	Adjustable controls	No such adjustable control.	N
4.3.4	Securing of parts	No loosening of parts is likely to occur.	Р
4.3.5	Connection of plugs and sockets	IEC60083 and IEC60320 connectors are not used in equipment.	Р
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	N
_(	Torque	<b>大</b>	N

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Report No.: AGC10385170801ES01 Page 17 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdic	
	Compliance with the relevant mains plug standard	· · · · · · · · · · · · · · · · · · ·	N	
4.3.7	Heating elements in earthed equipment	No heating elements.	N	
4.3.8	Batteries		Р	
aton of Global C	-Overcharging of a rechargeable battery	(see appended table 4.3.8)	Р	
-111	-Unintentional charging of a non-rechargeable battery	Non-rechargeable battery	N	
i de la companione	-Reverse charging of a rechargeable battery	Battery pack polarity cannot be reversed.	N	
A 3	-Excessive discharging rate for any battery	(see appended table 4.3.8)	P	
4.3.9	Oil and grease	No Oil and grease.	N	
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N	
4.3.11	Containers for liquids or gases	No containers for liquids or gases	N	
4.3.12	Flammable liquids:	The equipment does not contain flammable liquid.	N	
	Quantity of liquid (I):	- T. C.	N	
10	Flash point (°C)	200	N	
4.3.13	Radiation; type of radiation		₩ P	
4.3.13.1	General		Р	
4.3.13.2	Ionizing radiation	No ionizing radiation	N	
THE STATE OF THE S	Measured radiation (pA/kg)	GO NO		
	Measured high-voltage (kV)			
CO	Measured focus voltage (kV)	<b>亚型</b>		
	CRT markings			
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	N	
	Part, property, retention after test, flammability classification		N	
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	The Manual Comment of the Comment of	N	
4.3.13.5	Lasers (including laser diodes) and LEDs	LEDs for indicator only comply with class 1 requirement.	Р	
4.3.13.5.1	Lasers (including laser diodes)		N	
3	Laser class			
4.3.13.5.2	Light emitting diodes (LEDs)	Indicating LED only.	Р	
4.3.13.6	Other types:	-0	N	

4.4	Protection against hazardous moving parts	<b>工程</b>	N
4.4.1	General	No hazardous moving parts.	N

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Report No.: AGC10385170801ES01 Page 18 of 52

	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
4.4.2	Protection in operator access areas	也	N		
	Household and home/office document/media shredders	C. C.	N		
4.4.3	Protection in restricted access locations	100 100	N		
4.4.4	Protection in service access areas	也	N		
4.4.5	Protection against moving fan blades	E. B. S.	N		
4.4.5.1	General	-C	N		
in the same	Not considered to cause pain or injury. a):	2 10 2	N		
A 18 "	Is considered to cause pain, not injury. b):		N		
30	Considered to cause injury. c):	也 不是 第	n of Calonia N		
4.4.5.2	Protection for users	43	N		
学 The com	Use of symbol or warning	30	N		
4.4.5.3	Protection for service persons		N		
<b>√</b> C	Use of symbol or warning:	下 图 一 环	N		

4.5	Thermal requirements	, CO D	Р
4.5.1	General	10 40	₩ P
4.5.2	Temperature tests	(see appended table 4.5)	Р
ed.	Normal load condition per Annex L	C.32 - C.32	
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat	No thermoplastic parts on which parts at hazardous voltage are directly mounted.	Ñ

4.6	Openings in enclosures		N
4.6.1	Top and side openings	· · · · · · · · · · · · · · · · · · ·	N
	Dimensions (mm):	- 6	
4.6.2	Bottoms of fire enclosures		N
C. 3	Construction of the bottom:		
4.6.3	Doors or covers in fire enclosures	也想 不吃	N
4.6.4	Openings in transportable equipment	interest and	N
4.6.4.1	Constructional design measures	60 50	N
, CO	Dimensions(mm)		N
4.6.4.2	Evaluation measures for larger openings	<b>玉</b>	N
4.6.4.3	Use of metallized parts	53 - C	∨N

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Page 19 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
4.6.5	Adhesives for constructional purposes	五	N
	Conditioning temperature (°C), time (weeks):	M. Harding St. of St. o	

4.7	Resistance to fire	10	Р
4.7.1	Reducing the risk of ignition and spread of flame	Use of plastic with the required flammability classes.	P
111	Method 1, selection and application of components wiring and materials	Method 1 used	Р
- B 5	Method 2, application of all of simulated fault condition tests		N III
4.7.2	Conditions for a fire enclosure	报·	P
4.7.2.1	Parts requiring a fire enclosure	- 60	P
4.7.2.2	Parts not requiring a fire enclosure	- GO	N
4.7.3	Materials	11 21	P
4.7.3.1	General	T. T.	P
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1	Р
4.7.3.3	Materials for components and other parts outside fire enclosures	NGC I	N
4.7.3.4	Materials for components and other parts inside fire enclosures	Internal components except small parts are V-2 or better.	Р
4.7.3.5	Materials for air filter assemblies	No air filter assemblies	N
4.7.3.6	Materials used in high-voltage components	No high voltage components.	N

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		FP
5.1	Touch current and protective conductor current		N
5.1.1	General	10	N
5.1.2	Equipment under test (EUT)	11 不是	N
5.1.2.1	Single connection to an a.c. mains supply	Tr Branco St. Franco	N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	CO N	N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N
5.1.3	Test circuit	THE REPORT OF THE PARTY OF THE	N
5.1.4	Application of measuring instrument	2.C ***	N
5.1.5	Test procedure	10-	N
5.1.6	Test measurements	10000000000000000000000000000000000000	N
	Test voltage (V)	THE STATE OF THE S	N

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Report No.: AGC10385170801ES01 Page 20 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
<b>√</b> C	Measured touch current (mA)	10000000000000000000000000000000000000	N
	Max. allowed touch current (mA)	A Harding	N
1	Measured protective conductor current (mA):	-C - CO	N
The town	Max. allowed protective conductor current (mA) .:	10	N
5.1.7	Equipment with touch current exceeding 3.5 mA:	1 1 1	N
5.1.7.1	General	<b>张</b>	N
5.1.7.2	Simultaneous multiple connections to the supply	83° CO V	N
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks		N
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system	CC TO THE LOCK	N
All State of the S	Test voltage (V)		N
10	Measured touch current (mA)	The state of the s	N
	Max. allowed touch current (mA)	63 00	N
5.1.8.2	Summation of touch currents from telecommunication networks	NO.	N
E AND THE STREET	a)EUT with earthed telecommunication ports:	T. B	N
-701	b)EUT whose telecommunication ports have no reference to protective earth	-CIE	N

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

5.3	Abnormal operating and fault conditions		P P
5.3.1	Protection against overload and abnormal operation (see appended table 5.3)		
5.3.2	Motors		N
5.3.3	Transformers	No transformers	N
5.3.4	Functional insulation	See appended table 5.3. Complies with c)	P
5.3.5	Electromechanical components	Carried Ago	N
5.3.6	Audio amplifiers in ITE	: 0	N
5.3.7	Simulation of faults	Result see appended table 5.3.	P #
5.3.8	Unattended equipment	The state of the s	N

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Page 21 of 52

400 089 2118

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	P
5.3.9.1	During the tests	No hazards.	Р
5.3.9.2	After the tests	No fire, no danger.	Р

6	CONNECTION TO TELECOMMUNICATION NETWORKS	N
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	
6.1.1	Protection from hazardous voltages	
6.1.2	Separation of the telecommunication network from earth	
6.1.2.1	Requirements	N N
F Marianton	Test voltage (V)	
distant.	Current in the test circuit (mA)	A
6.1.2.2	Exclusions:	N

6.2	Protection of equipment users from overvoltages on telecommunication networks		N
6.2.1	Separation requirements	10 10	M N
6.2.2	Electric strength test procedure	The state of the s	N
6.2.2.1	Impulse test	C.**	N
6.2.2.2	Steady-state test	00 10	N
6.2.2.3	Compliance criteria	THE STATE OF THE S	N

6.3	Protection of the telecommunication wiring system from overheating	N
小小	Max. output current (A):	
station of Gar	Current limiting method:	48. T

7	CONNECTION TO CABLE DISTRIBUTION SYSTE	MS	N
7.1	General		N
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	A TABLE CO	N N
7.3	Protection of equipment users from overvoltages on the cable distribution system	CC D	N
7.4	Insulation between primary circuits and cable distribution systems	<b>从</b> 基本	N

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Page 22 of 52

EN 60950-1				
Clause	Requirement – Test		Result – Remark	Verdic
7.4.1	General		10000000000000000000000000000000000000	N <sup>®</sup>
7.4.2	Voltage surge test		要 等 2000	A N
7.4.3	Impulse test	The state of the s	C -C	o N N

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Page 23 of 52

Clause	Requirement – Test	Result – Remark	Verdict	
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT		N	
A.1	Flammability test for fire enclosures of movable ed	The Control of the Co	- The Total	
Α. Ι	exceeding 18 kg, and of stationary equipment (see 4.7.3.2)			
A.1.1	Samples:	3 100		
alton of Global	Wall thickness (mm)	# # # # # # # # # # # # # # # # # # #		
A.1.2	Conditioning of samples; temperature (°C):		N	
A.1.3	Mounting of samples	4.0°	N	
A.1.4	Test flame (see IEC 60695-11-3)		Z	
A 18 "	Flame A, B, C or D			
A.1.5	Test procedure	在	N	
A.1.6	Compliance criteria	CC	N	
F Made Com	Sample 1 burning time (s)	- CO - BO		
discount.	Sample 2 burning time (s)			
	Sample 3 burning time (s):	不是 不是		
A.2	Flammability test for fire enclosures of movable ed exceeding 18 kg, and for material and component 4.7.3.2 and 4.7.3.4)		N	
A.2.1	Samples, material:	4 B		
T	Wall thickness (mm):	The state of the s		
A.2.2	Conditioning of samples	-0" 60"	N	
A.2.3	Mounting of samples	10 10	N	
A.2.4	Test flame (see IEC 60695-11-4)		N	
0	Flame A, B or C:	<b>永</b>		
A.2.5	Test procedure	-0	N	
A.2.6	Compliance criteria	10 10	N	
atalies.	Sample 1 burning time (s):			
170	Sample 2 burning time (s):	1 B.		
	Sample 3 burning time (s):	- CO .		
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8		Z	
3	Sample 1 burning time (s):	A TABLE OF		
	Sample 2 burning time (s):			
图测	Sample 3 burning time (s)	30.		
A.3	Hot flaming oil test (see 4.6.2)	111	N	
A.3.1	Mounting of samples	环 · · · · · · · · · · · · · · · · · · ·	N	
A.3.2	Test procedure	The State of the S	N	

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Report No.: AGC10385170801ES01 Page 24 of 52

	EN 60950-1	A** W 10	
Clause	Requirement – Test	Result – Remark	Verdict
A.3.3	Compliance criterion	10000000000000000000000000000000000000	N

B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7. 5.3.2)	2.2 and N
B.1	General requirements	N
	Position:	# The state of the
- 700	Manufacturer:	Attention
Controller	Type:	-
6	Rated values:	
B.2	Test conditions	Market N
B.3	Maximum temperatures	N C
B.4	Running overload test	N
B.5	Locked-rotor overload test	N s
20	Test duration (days):	
-	Electric strength test: test voltage (V):	-
B.6	Running overload test for d.c. motors in secondary circuits	N
B.6.1	General	° Sky Steel N
B.6.2	Test procedure	N
B.6.3	Alternative test procedure	N
B.6.4	Electric strength test; test voltage (V)	N
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	N. The
B.7.1	Test procedure	N State N
B.7.2	Alternative test procedure; test time (h):	N
B.7.3	Electric strength test	N N
B.8	Test for motors with capacitors	The Townson N
B.9	Test for three-phase motors	N
B.10	Test for series motors	N
- 1	Operating voltage (V):	

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.	.3)	N
AN THE	Position	No transformers	
Old Coulding	Manufacturer:	100	
	Type:	我想 "我想	
	Rated values:	The state of the s	

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Report No.: AGC10385170801ES01 Page 25 of 52

	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
~(	Method of protection	10000000000000000000000000000000000000			
C.1	Overload test	Friday Comment	N		
C.2	Insulation	-C - C	N		
不	Protection from displacement of windings:	10	N		

D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)	
D.1	Measuring instrument	N
D.2	Alternative measuring instrument	N 剩

G	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	The Parison	M N
	 ANNEX E, TEMI ENATONE MOE OF A WINDING (SEE 1.4.15)		

F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES	N
A STATE OF THE STA	(see 2.10)	

G	ANNEX G, ALTERNATIVE METHOD FOR DETER	MINING MINIMUM CLEARANCES	N
G.1	Clearances	7 300	N
G.1.1	General		N
G.1.2	Summary of the procedure for determining minimum clearances		N
G.2	Determination of mains transient voltage (V):	60 - 00	N
G.2.1	AC mains supply		N
G.2.2	DC mains supply	1. 1	N
G.2.3	Unearthed DC mains supply:	The state of the s	N
G.2.4	Battery operation:		N
G.3	Determination of telecommunication network transient voltage (V):		ill N
G.4	Determination of required withstand voltage (V) .:	I Barrier B. F. Com	N
G.4.1	Mains transients and internal repetitive peaks:	1 3 CO 1	N
G.4.2	Transients from telecommunication networks:	C	N and
G.4.3	Combination of transients	- III	J.N
G.4.4	Transients from cable distribution systems	T T T	M N
G.5	Measurement of transient levels (V):	C #	N
Compliance	a) Transients from a mains supply	100	N
	For an a.c. mains supply		N #
11/	For a d.c. mains supply	T. T. Same	N
	b) Transients from a telecommunication network	E	N

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Page 26 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
G.6	Determination of minimum clearances:	工程型 - 接票	N
		The state of the s	St. July d Older
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)		N
The ter	- C - C	10 10	-mil
J	ANNEX J, TABLE OF ELECTROCHEMICAL POT	ENTIALS (see 2.6.5.6)	N
	Metal used:	The Paris of the P	
1 THE		- 10"	C
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	1 5.3.7)	N and
K 1	Making and breaking capacity		NI NI MARINE

N.	ANNEX K, THERWIAL CONTROLS (See 1.5.5 and	1 3.3.7)	A simi
K.1	Making and breaking capacity		N
K.2	Thermostat reliability; operating voltage (V):		N
K.3	Thermostat endurance test; operating voltage (V):	CC BOO	N
K.4	Temperature limiter endurance; operating voltage (V):	A THE REST	N
K.5	Thermal cut-out reliability	The state of the s	N
K.6	Stability of operation	20 3	N

L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		Р
L.1	Typewriters	-0" -0"	N
L.2	Adding machines and cash registers	10 50	N
L.3	Erasers		N
L.4	Pencil sharpeners	环境。 · · · · · · · · · · · · · · · · · · ·	N
L.5	Duplicators and copy machines	-0-0	N
L.6	Motor-operated files		N
L.7	Other business equipment	10000000000000000000000000000000000000	P P

M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		N
M.1	Introduction	0	N a
M.2	Method A	- TIII	J.N.
M.3	Method B	T T	N
M.3.1	Ringing signal	- 18 July 19 19 19 19 19 19 19 19 19 19 19 19 19	N
M.3.1.1	Frequency (Hz):	100	
M.3.1.2	Voltage (V):		
M.3.1.3	Cadence; time (s), voltage (V):	T. T. Sandania	
M.3.1.4	Single fault current (mA):	- 6 · · · · · · · · · · · · · · · · · ·	<u></u>

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Page 27 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
M.3.2	Tripping device and monitoring voltage:	大枝 拉 拉 一	N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	- Andrews Carlotte	N
M.3.2.2	Tripping device	100 10	N
M.3.2.3	Monitoring voltage (V):	F-	N N

N-M	ANNEX N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)		N
N.1	ITU-T impulse test generators	-CO	N
N.2	IEC 60065 impulse test generator		N

P ANNEX P, NORMATIVE REFERENCES	Р	
---------------------------------	---	--

Q	ANNEX Q, Voltage dependent resistors (VDRS) (see 1.5.9.1)	
	-Preferred climatic categories:	N
	-Maximum continuous voltage:	N
弄到	-Combination pulse current:	<sub>M</sub> N
	Body of the VDR Test according to IEC 60695- 11-5:	N
7M	Body of the VDR. Flammability class of material ( min V-1):	N

R ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		ALITY CONTROL	N
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)	Yac Fac	N
R.2	Reduced clearances (see 2.10.3)	4	N

S	ANNEX S, PROCEDURE FOR IMPULSE TESTII	NG (see 6.2.2.3)	N
S.1	Test equipment	: O "	N
S.2	Test procedure	-111	N
S.3	Examples of waveforms during impulse testing	不 地	N

Tampianen	ANNEX T, GUIDANCE ON PROTECTI	ON AGAINST INGRESS OF	WATER	N
	(see 1.1.2)			_ 3

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Page 28 of 52

	EN 60950-1		
Clause	Requirement – Test Result – F	temark	Verdict
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUNSULATION (see 2.10.5.4)	OUT INTERLEAVED	N
	*	-C* - CC*	
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.	1)	N
V.1	Introduction	10	N
V.2	TN power distribution systems	也	N
700	11 4 3 4 3 4 5 4 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	a.C	· 0
W	ANNEX W, SUMMATION OF TOUCH CURRENTS		N
W.1	Touch current from electronic circuits		N
W.1.2	Earthed circuits	不 也	N
W.2	Interconnection of several equipments	E CO	N
W.2.1	Isolation	,	N
W.2.2	Common return, isolated from earth		N
W.2.3	Common return, connected to protective earth	<b>在</b>	N
	· · · · · · · · · · · · · · · · · · ·		
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORME C.1)	ER TESTS (see clause	N
X.1	Determination of maximum input current	不 也 不	N
X.2	Overload test procedure		N
TIM.			110
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (se	ee 4.3.13.3)	N
Y.1	Test apparatus:	<b>大</b> 也	N
Y.2	Mounting of test samples:	A Training	N
Y.3	Carbon-arc light-exposure apparatus:	20 .00	N
Y.4	Xenon-arc light exposure apparatus:		N
	-O	加东	Nation .
Z	ANNEX Z, OVERVOLTAGE CATEGORIES(see2.10.3.2 and	Clause G.2)	N
	THE THE PARTY OF T	- 60	9
AA .	ANNEX AA, MANDREL TEST (see 2.10.5.8)		N
C			Z That care
ВВ	ANNEX BB, CHANGES IN THE SECOND EDITION	The state of the s	
Lig: _		STATE OF THE PROPERTY OF THE P	
CC	ANNEX CC, Evaluation of integrated circuit (IC) circuit lin	niters	N
CC.1	General	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N
		THE WAY THE THE PARTY OF THE PA	

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Page 29 of 52

@ 400 089 2118

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
CC.3	Test program 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
CC.4	Test program 3	The state of the s	N
CC.5	Compliance	0 -0 -0	) N

DD	ANNEX DD, requirements for the mounting means of rack-mounted equipment		
DD.1	General	The Standard Standard Comment	N
DD.2	Mechanical strength test, variable N:	* * CO \	N
DD.3	Mechanical strength test, 250N, including end stops:		N
DD.4	Compliance:	校型 乐整	N

EE MAN	ANNEX EE, Household and home/office document/media shredders		
EE.1	General		N
EE.2	Marking and instructions	The State of the S	N
	Use of markings or symbols:	5 C C	N
学玩	Information of user instructions, maintenance and/or servicing instructions:	, FOO	N
EE.3	Compliance:	<b>张</b> 题	N
EE.4	Disconnection of power to hazardous moving parts:	-C**	N
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	Use of markings or symbols:	10	N
EE.5	Protection against hazardous moving parts		N
0	Test with test finger (figure 2A):	The things of the state of the	N
, IZ	Test with wedge probe (figure EE1 and EE2):	-01-0	N

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Page 30 of 52

@ 400 089 2118

	1	_		EN 60950-1			
Clause		ment – Test				ult – Remark	Verdict
EN	0 4					MMON MODIFICAT	IONS
		subclauses, no 0-1 and it's ame		nd figures which a prefixed "Z"	are additional t	o those in	Andrew of Control
Contents (A2:2013)	(C)	following annexe		, CO	" . G <sup>C</sup>	100	Р
(/ 12.2010)	Annex Z			erences to intern European publi		tions with their	Sul.
	Annex ZI			nal conditions	Cations		- E
		,	30F53	IELEC code des	ignations for fle	exible cords	- 6
General	Delete al	· 22	notes in the	reference docum	100		Р
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	<b>下</b>
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	and of Groun
	2.2.3	Note	2.2.4	Note	2.3.2	Note	~C
	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	
	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	22
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	- B.
	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	,0
	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	1000
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	CONT.
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	< G
	G.2.1	Note 2	Annex H	Note 2			
General (A1:2010)		I the "country" ng to the following		ference docume	nt (IEC 60950-	1:2005/A1:2010)	P
	1.5.7.1	Note		6.1.2.1	Note 2		Maratan of Great
45.7	6.2.2.1	Note 2	The state of the s	EE.3	Note	in all	8521
General (A2:2013)		I the "country" n g to the following		ference docume	nt (IEC 60950-	1:2005/A2:2013)	P
(/ 12.2010)	2.7.1	Note *	g not.	2.10.3.1	Note 2		Charces .
	6.2.2.	Note	of Common I	Madification rom	oine unchange	al State of Green	- T
1.1.1		the text of NOT		Modification rem	ams unchange	u.	64
(A1:2010)	ACM CONTRACTOR		100	nay also be used to	meet safety red	quirements for	-11
		a equipment. See					162

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Page 31 of 52

@ 400 089 2118

21	EN 60950-1	D 1/ D 1	
Clause	Requirement – Test	Result – Remark	Verdict
.3.Z1	Add the following subclause:	大 拉 那	· 张
	1.3.Z1 Exposure to excessive sound pressure	The of Country Co.	F. P
	The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either	Ci aC	3000
	in normal operating conditions or under fault conditions,		
	particularly providing protection against exposure to excessive		311
	sound pressures from headphones or earphones.	11	200
	NOTE Z1 A new method of measurement is described in EN	Street of Grand Control	C 3
	50332-1, Sound system equipment: Headphones and earphones associated with portable audio	- CO" >	0
	equipment - Maximum sound pressure level measurement		711
	methodology and limit considerations - Part 1: General method	-711	TK 10
	for "one package equipment", and in EN 50332-2, Sound	大 地 一	Son of Global C
	system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure	F. C	
	level measurement methodology and limit considerations -	100	
	Part 2: Guidelines to associate sets with headphones coming		
	from different manufacturers.		14
A12:2011)	In EN 60950-1:2006/A12:2011	The second	C 35
	Delete the addition of 1.3.Z1 / EN 60950-1:2006	C 3	P
4/31	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010		
.5.1	Add the following NOTE:	TITL:	147
	NOTE Z1 The use of certain substances in electrical and	TK 13	N
	electronic equipment is restricted within the EU: see Directive 2002/95/EC.	Francisco State of Contract of	
Added info*)	New Directive 2011/65/11 *	60	10
.7.2.1	In addition, for a PORTABLE SOUND SYSTEM, the instructions		
A1:2010)	shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.	拉型	N to
.7.2.1	In EN 60950-1:2006/A12:2011	T Thomas com	The state of Golden
A12.2011)	Delete NOTE Z1 and the addition for Portable Sound System.	C The C	Р
	Add the following clause and annex to the existing standard and amendments.		
retailor is Gill	Zx Protection against excessive sound pressure from person	nal music players	P
	Zx.1 General	Bino Figure	_ 6
	This sub-clause specifies requirements for protection against	- 6	N
	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		15.7
	music players.	10 m	The Comment
	A personal music player is a portable equipment for personal	II IN	Are to ton or
	use, that: - is designed to allow the user to listen to recorded or	- CO	30
	broadcast sound or video; and		
	- primarily uses headphones or earphones that can be worn in	1111	2.4
	or on or around the ears;	The state of the s	- 15
	- allows the user to walk around while in use.	7 000	Miles

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Page 32 of 52

EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict		
N	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.	T. T	N		
	A personal music player and earphones or headphones intended to be used with personal music players shall compaint the requirements of this sub-clause.	ply	E M		
	The requirements in this sub-clause are valid for music or video mode only.	<b>永</b>	-C		
	<ul> <li>The requirements do not apply:</li> <li>while the personal music player is connected to an extern amplifier; or</li> <li>while the headphones or earphones are not used.</li> <li>NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player.</li> </ul>	10 m			
	The requirements do not apply to:    hearing aid equipment and professional equipment;    NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.    - analogue personal music players (personal music players	GC THE TO	GC <sup>®</sup>		
	without any kind of digital processing of the sound signs that are brought to the market before the end of 2015.  NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a years it will no longer exist. This exemption will not be extended other technologies.	al) few	)C		
	For equipment which is clearly designed or intended for use young children, the limits of EN 71-1 apply.	e by	15年 环境		
T. T.	Zx.2 Equipment requirements  No safety provision is required for equipment that complies with the following:  - equipment provided as a package (personal music play with its listening device), where the acoustic output LAe	er q,T	N		
	<ul> <li>is ≤ 85 dBA measured while playing the fixed "programr simulation noise" as described in EN 50332-1; and</li> <li>a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-while playing the fixed "programme simulation noise" as described in EN 50332-1.</li> </ul>	ical 2,	A The Land		
	NOTE 1 Wherever the term acoustic output is used in this clauthe 30 s A-weighted equivalent sound pressure level LAeq, T is meant. See also Zx.5 and Annex Zx.				

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Page 33 of 52

@ 400 089 2118

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
- (	All other equipment shall:	700	- 极力
	<ul> <li>a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and</li> <li>b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and</li> </ul>	C A TOO	N
	c) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any	CO	GC T
	means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The acknowledgement does not need to be repeated more than		F. Walter Company
	once every 20 h of cumulative listening time; and NOTE 2 Examples of means include visual or audible signals. Action from the user is always required.	AGC!	≥C
	NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long the personal music player has been switched off. d) have a warning as specified in Zx.3; and	A THE	
	e) not exceed the following:  1) equipment provided as a package (player with Its listening device), the acoustic output shall be ≤ 100 dBA	CC. D	OC
	measured while playing the fixed "programme simulation noise" described in EN 50332-1; and 2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be ≤ 150 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1.	NGC 1	NO.
	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.	C Talk	
	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.	No.	GC T
	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.	AGC.	P(C

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Page 34 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
A STATE OF THE STA	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:	C THE THE PROPERTY OF THE PROP	N
	"To prevent possible hearing damage, do not listen at high volume levels for long periods."	ACC BETTE	C
	Figure 1 – Warning label (IEC 60417-6044)	4 10	The total company
<b>G</b> 板槽	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.	J. CC	>G
Authoration of	Zx.4 Requirements for listening devices (headphones and	earphones)	45
N	Zx.4.1 Wired listening devices with analogue input With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV.	-C***	G N
	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).	T. H. B. M.	1 P
图 11	NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.	NGC	NO.
GC T	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.	C F. F. J. B. B.	N
A Company of the Comp	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.).	CETT	GC T
	NOTE An example of a wired listening device with digital input is a USB headphone.		10.10

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Page 35 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
	<ul> <li>Zx.4.3 Wireless listening devices</li> <li>In wireless mode:</li> <li>with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and</li> <li>respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and</li> <li>with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the abovementioned programme simulation noise, the acoustic</li> </ul>	Left: 98.45dBA. Right: 98.32dBA.	GC T	
	output LAeq,T of the listening device shall be ≤ 100 dBA.  NOTE An example of a wireless listening device is a Bluetooth headphone.	-C	E Sandadan C	
S.C.	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		C P	
2.7.1 2 10	Replace the subclause as follows:	GU P		
The state of the s	Basic requirements	-TI	70	
	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	AGC # T.	N	
	necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;	<b>五</b> 环 地 "	等环境	
T. T. Wall	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 BOO		
	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	NGC 1. T.	S N	
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	P.GC	20	
2.7.2	This subclause has been declared 'void'.	利	N	
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the	4 7	CN	

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Page 36 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2".	A Townson	手环
	In Table 3B, replace the first four lines by the following:  Up to and including 6   0,75 a)    Over 6 up to and including 10   (0,75) b) 1,0    Over 10 up to and including 16   (1,0) c) 1,5    In the conditions applicable to Table 3B delete the words "in		N
	some countries" in condition <sup>a)</sup> .  In NOTE 1, applicable to Table 3B, delete the second sentence.	AGO A	
3.2.5.1 (A2:2013)	NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD	<b>不</b> 整剂	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	No.	N
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following:  NOTE Z1 Attention is drawn to:  1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and  2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks	GC THE TOTAL OF THE TAX	N
E TOTAL STATE OF THE STATE OF T	arising from physical agents (artifical optical radiation).  Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the	P.C.	N
a.C	applicable EU Directive are indicated in the OJEC.	人校下	<b>张</b>
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.	C NOC	N
	Replace the notes as follows:  NOTE These values appear in Directive 96/29/Euratom.  Delete NOTE 2.	CATE.	20 <sup>8</sup>
Bibliography	Additional EN standards.	10 3	

		26.00
ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR	
	CORRESPONDING EUROPEAN PUBLICATIONS	_

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Page 37 of 52

Clause	Requirement – Test	Result – Remark	Verdict
Jidase	ZB ANNEX (normative) SPECIAL NATIONAL CONE	+2002	Verdiet
1.2.4.1	In <b>Denmark</b> , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.	G G G G	N
1.2.13.14	In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.7.2.1 and 7.3 of this annex.		N N
1.5.7.1	In <b>Finland, Norway</b> and <b>Sweden</b> , resisters bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resister is used, the resister must withstand the resister test in 1.5.7.2.	YCC.	SCN .
1.5.8	In <b>Norway</b> , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	A CO	N M
1.5.9.4	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		N
1.7.2.1	In 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"		N N N N N N N N N N N N N N N N N N N
1.7.2.1 (A11:2009)	In Sweden: "Apparaten skall anslutas till jordat uttag" In Norway and Sweden, the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.  It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.  The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:		N M M M M M M M M M M M M M M M M M M M

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Page 38 of 52

01	EN 60950-1	ls s .	
Clause	Requirement – Test	Result – Remark	Verdict
30	ZB ANNEX (normative) SPECIAL NATIONAL CON	DITIONS (EN)	<b>五</b>
	"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."		N
	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):	CC T	
	"Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet."		GC <sup>®®</sup>
	Translation to Swedish:	GO P	
	"Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät alvanisk isolator finnas mellan utrustningen och kabel-TV nätet."	E TO BE TO SEE THE SE	NO.
1.7.2.1 (A2:2013)	In <b>Denmark</b> , CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.  The marking text in <b>Denmark</b> shall be as follows: In <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."		N S
1.7.5	In <b>Denmark</b> , socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a. For <b>CLASS II EQUIPMENT</b> the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.	A THE AMERICAN	N THE STATE OF THE

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Page 39 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
<b>√</b> C	ZB ANNEX (normative) SPECIAL NATIONAL CON	DITIONS (EN)	不恒
1.7.5 (A2:2013)	In <b>Denmark</b> , socket-outlets for providing power to other equipment shall be in accordance with the DS 60884-2-D1:2011.  For class I equipment the following Standard Sheets are applicable: DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a, with the exception for STATIONARY EQUIPMENT where the socket-outlets shall be in accordance with Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or DK 1-5a.  Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with by DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b.  Justification the Heavy Current Regulations, 6c		N
2.2.4	In <b>Norway</b> , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N
2.3.2	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	A State of the sta	G N
2.3.4	In <b>Norway</b> , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	50	N
2.6.3.3	In the <b>United Kingdom</b> , the current rating of the circuit shall be taken as 13 A, not 16 A.	不是 那	N
2.7.1	In the <b>United Kingdom</b> , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.	P.C.	N S
2.10.5.13	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	So. For	N

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Page 40 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	乐粒
3.2.1.1	In <b>Switzerland</b> , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:  SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A  SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A  SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A  In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:  SEV 5932-2.1998: Plug Type 25, 3L+N+PE 230/400 V, 16 A  SEV 5933-2.1998: Plug Type 21, L+N, 250 V, 16A  SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A		N
3,2.1.1	In <b>Denmark</b> , supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to 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		N G
C. 9	cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.		人也
3.2.1.1	In <b>Spain</b> , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.  Supply cords of single-phase equipment having a rated	GC TE TO A GC	N
	current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.		E THE
	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.	NGC #	GC *
	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	T. T. T. T. C.	A Carlos of Carlos

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Page 41 of 52

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Clause	Requirement – Test	Result – Remark	Verdict
~(	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	<b>派</b> 粮。"
3.2.1.1	In the <b>United Kingdom</b> , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations.	C TO DO	N
	NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	NO.	
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.	NOC S	N
3.2.4	In <b>Switzerland</b> , for requirements see 3.2.1.1 of this annex.	T I don't com	N
3.2.5.1	In the <b>United Kingdom</b> , a power supply cord with conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.	CC P	N
3.3.4	In the <b>United Kingdom</b> , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is:  • 1,25 mm² to 1,5 mm² nominal cross-sectional area.	C C	N
4.3.6	In the <b>United Kingdom</b> , the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	Carried BCC	N Managed Managed
4.3.6	In <b>Ireland</b> , DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.	NGC P	G N

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Page 42 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
~(	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	不悟。
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	C BCC	N
	has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON;  • STATIONARY PLUGGABLE EQUIPMENT TYPE B;  • STATIONARY PERMANENTLY CONNECTED EQUIPMENT.	NGC TO	
6.1.2.1 (A1:2010)	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , add the following text between the first and second paragraph of the compliance clause:  If this insulation is solid, including insulation forming part of a component, it shall at least consist of either  - two layers of thin sheet material, each of which shall pass the electric strength test below, or		N N
	- 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	ACC TO THE TOTAL PARTY.	NGC NEW

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Page 43 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	不恒
等. T. 拉	<ul> <li>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</li> <li>is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> <li>It is permitted to bridge this insulation with an optocoupler</li> </ul>		N
	complying with 2.10.5.4 b).  It is permitted to bridge this insulation with a capacitor	GC.	CO
	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 transfer of
	- 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;	NGC !	NG.
	- the additional testing shall be performed on all the test specimens as described in EN 60384-14:	型 灰鬼型	- B # 3
	- 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.	GC 2	OC.
5.1.2.2	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	ACC TO A STATE OF THE PARTY OF	N
7.2	CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.	The state of the s	The state of the s
学系	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , for requirements see 6.1.2.1 and 6.1.2.2 of this annex.  The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	C. SOC	N
7.3	In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	医测 弄玩	N
7.3	In <b>Norway</b> , for installation conditions see EN 60728-11:2005.	c.C	N

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Page 44 of 52

1.5.1	TABLE: list of critical compon	ents			Р
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Battery	Shenzhen FuYuMing Electronics Co.,Ltd	502030	3.7V, 250mAh Max charging current: 250mA Max discharging current: 250mA	IEC 62133	IEC62133 Report :PTC HX0417080 0101S-IE01
Internal wire	Interchangeable	Interchangeable	28AWG, 80°C	UL758	UL AVLV2
Speaker	Interchangeable	Interchangeable	32ohm,15mW	EN60950-1	Tested with appliance
PCB	Interchangeable	Interchangeable	V-1, 130°C	UL94, UL796	UL ZPMV2
Enclosure	CHI MEI CORPORATION	PC-122F	Min.0.88mm, V-0, 80°C	UL94	UL E56070
Note(s):	- 学 - 一 - 一 - 一	CO TO	-00		

1.6.2	TABLE: e	electrical data (	in normal cor	nditions)	亚环	CP
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status
3.7	0.03		0.12	-0		Discharge, the EUT was equipped with fully charge battery.
5.0	0.23	0.5	1.15			Charge, the EUT was equipped with fully discharge battery.

2.1.1.5c)1) TABLE: n	nax. V, A, VA test	1 电	N				
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)			
10 mm	不懂 美学	Charles Co. Co.	20 = 1	- O " 1			
Note(s):							

2.1.1.5c)2)	TABLE: stored energy	43. JUL	<b>五</b>	五 五	C. 3	N Size	
	Capacitance C (µF)		Vol	Voltage U (V)		Energy E (J)	
	-C	100	100			- 10	
Note(s):	10			(五)	不能	The state of Colonial Control	

2.2	TABLE: evaluation of	miting compo	onents in SELV circ	uits	N	
Campanan	Component (measured between)			max. voltage (V)	(normal operation)	Voltage Limiting
Componer				Vpeak	Vd.c.	Components
	Jr	A COMPANY	五 大	C- The sure of the	- C	70-

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Fault test performed on voltage limiting components

Report No.: AGC10385170801ES01 Page 45 of 52

F Johnson	The second	20	-C
Voltage measur	ed (V) in SELV circ	cuits (V peak or	V d.c.)

Note(s):--

Isc (A)	VA	
s. Limit	Meas.	Limit
The second		
,	. Limit	150 Sentin

2.10.2	TABLE: Working v	oltage measurement	超测 不为	N
Location	ocation RMS voltage (V)		Peak voltage (V)	Comments
The delivery con	F The bearing	- CC	- CO"	
Note(s):	Ci c		31	T. T.

2.10.3 and 2.10.4 TABLE: clearance and creepage distance measurements								I IVRI E. CIOGRANCO AND CLODADDO DISTANCO MOSCI LOMONTO							N
Clearance distance d	cl and creepage cr at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)								
1	-	3	,	E 700	F Thomas	The state of the s									
Altr:	2 70	The state of the s	7 3/1	C	Pilotolia	4.O :-	10								

2.10.5	TABLE: distance through insulation	measurements	K KL		N
Distance th	rough insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)
Note(s):		校测	<b>私</b>	The state of Green	657

4.3.8	TABLE: Batteries										
The tests of not availab	of 4.3.8 are appli ble	cable only v	when approp	riate batter	y data is		相测		P		
Is it possib	le to install the b	attery in a r	everse polai	ity position	?	439% L.O.	ed connecto attery pack		N G		
The state of the s	Non-red	chargeable	batteries			Rechargeab	le batteries	;			
- (	Disch	Discharging Uninten-		Discharging Uninten- Charging		rging	Discharging Reve		Reverse	erse Charging	
	Meas. current	Manuf. Specs.	tional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf.S pecs.	Meas. current	Manuf. Specs.		

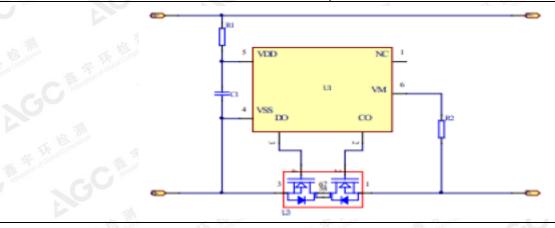
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Report No.: AGC10385170801ES01 Page 46 of 52

	Part Contract Contrac	-117.3		-5 100	100 C) C)			
1 5	- Ci <sup>®</sup>	of County Companies	210mA	250mA	30mA	250mA	 m	) w
23	· · · · · · · · · · · · · · · · · · ·	A	235mA	250mA	50mA	250mA	-Ö	The contract
C.1	nthe bullon of	The state of the	1	9	100	17/	9	Verdict
s	\G				No			Р
ne battery		TK 10 110	不饱	700	No	- 等	F of Global	P
ame or expu	ılsion of mo	lten metal	The state of Calendaria	- T	No			Р
- Electric strength tests of equipment after completion of tests								
				A 70		恒那	# F	od Global Com
	A COUNTY	ne battery ame or expulsion of mo	ne battery ame or expulsion of molten metal	s 235mA  s he battery ame or expulsion of molten metal	235mA 250mA  s ne battery ame or expulsion of molten metal	s No No ame or expulsion of molten metal 235mA 250mA 50mA	S No No No ame or expulsion of molten metal	S No No No ame or expulsion of molten metal No

4.3.8 TABLE: Batteries	P			
Battery category:	Polymer Lithium Battery			
Manufacturer	: Shenzhen FuYuMing Electronics Co.,Ltd			
Type/model:	502030			
Voltage, Capacity:	3.7V, 250mAh			
Circuit protection diagram:	See below of details.			



## MARKINGS AND INSTRUCTIONS (1.7.13)

WARRINGO AND INCTROCTIONS (1.7.13)			
Location of replaceable battery	Non-replaceable battery		10000000
Language(s)	1	<b>大龙</b> 第	The of Chaput
Close to the battery:	# The same of t	20	< G
In the servicing instructions:			
In the operating instructions:		711	TO TO
Note(s):	不是	不不	The same of

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Page 47 of 52

4.5	TABLE: maximum t	emperature	S	C	C. 3	attorio	10	Р
E and	Test voltage (V)		<u>C</u>	,	charge mo		110	
mavimum	tomporature T of part/		Т	(°C)		allowed		
maximum	temperature T of part/a	á	a)		b)	Tmax (°C)		
Button		- F	union of G	42	2.5	4	12.4	75
PCB near	· U1	46.9		45.2		130		
Battery				44.6		43.8		Ref.
Internal w	rire 🥻 🧌	The state of the s	_ 4	43.7		42.8		80
Internal e	nclosure	1	C	42.9		42.1		80
External e	enclosure	110		42.1		4	11.6	75
Ambient	in the		litte:	40	0.0	- Th	10.0	alondo
Temp	erature T of winding	t₁(°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation Class
	C Thomas - C	Nissan	-0		<u></u>			4
Note : Ha	ving a specified maxim	um ambient	temperat	ure of 40°C	一位	- Arra	不懂	· 第一

4.5.5	TABLE: ball pressure test of thermoplastic parts			N
4年10日	allowed impression diameter (mm):	1	4	
Part		Test temperature(°C)		ion diameter mm)
根测	THE STATE OF THE S	GO - 50,		
Note(s):	*** . GO . CO		111	45. 利

4.7	TABLE: Resistance to	fire	<b>表</b>	The state of the s	P
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
Tilledallo	- C - N	- 1		Th	
Note(s): Ref	fer to table 1.5.1		A TO	3. 第一	- T. T.

5.1	TABLE: touch current	measurement			N
Measured	between:		Measured(mA)	Limit(mA)	Comments/conditions
		Alle:	环境	The same	
Note(s):	<b>环</b> 也。	T. 152	The state of the s	C. S	Co Yo

5.2 TABLE: electric strength tests and impulse tests	超测	16	N
Test voltage applied between:	Test voltage (V)	Brea	kdown

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Page 48 of 52

-71	证 环	T. T.	-C	- 63-		NO
Note(s):	C Marine	A Standard	10 3	Go "	-	:111

5.3	TABLE: fault condition tests					Р	
48a	aml	oient temperature (	°C)	24.3			
E F Marcon	rated markings of power supply:				100		
Component no.		Fault	Test voltage (V)	Test time	Fuse no.	Result	
Battery		Output,S-C		10min	C-3-7	Unit shutdown immediately. No hazards.	
Battery Overcharge, B- and P-, S-C		5.0	7h	9	No hazards. Battery enclosure: 26.6°C		
Battery	-TILL	Discharge, B- and P-, S-C	70	2h	<b>环境</b>	No hazards. Battery enclosure: 25.5°C	
U2		Pin 3-4, S-C	5.0	2h		Unit shutdown immediately. No hazards.	
Speaker S-C		>	10min		Speaker not work, no damage and hazards.		
Fault: S-C =	short	circuit	:111	Mr s.	T. Tr	Comment of The Comment	- Ci

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## **Attachment A Photos of product**



Fig.1 - overview



Fig.2 - overview

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Fig.3 – partview

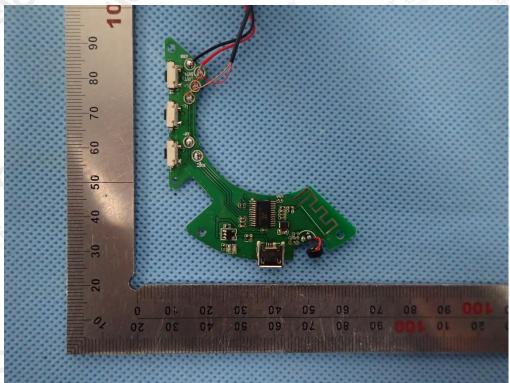


Fig.4 - partview

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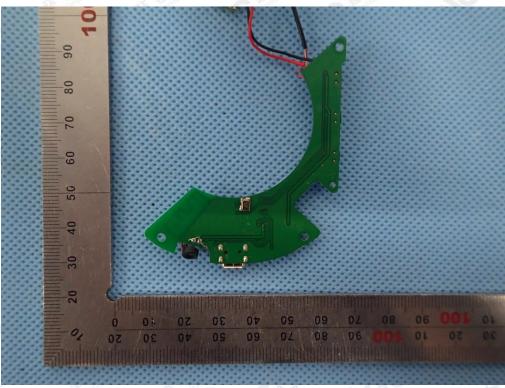


Fig.5 - partview

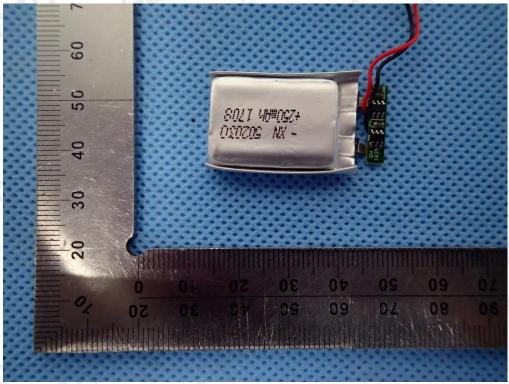
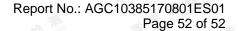


Fig.6 – battery

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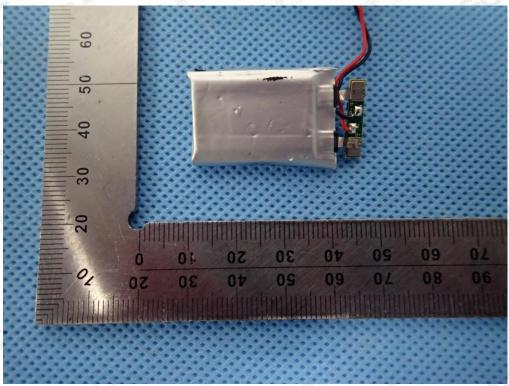


Fig.7 - battery

---- END OF REPORT----

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