

# **Safety Test Report**

Report No.: AGC04426180701ES01

**ACTIVE NOISE CANCELLATION BLUETOOTH** 

**PRODUCT DESIGNATION**: HEADPHONE

BRAND NAME : LY

ANC-CLF01, F01, C1,

MODEL NAME : P328.141 Swisspeak ANC headphone, DG320

CLIENT :

**DATE OF ISSUE** : Aug. 09, 2018

**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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### **TEST REPORT**

#### EN 60950-1

Report Reference No:	AGC04426180701ES01	
GU P		E The state of the
Tested by (+ signature):	Richie Fan	Richie Fan
	O "	GO
Reviewed by (+ signature):	Jenny Li	Jernyli
Approved by (+signature):	Matte He (Authorized Officer)	Richie Fan Jennyli Mette He
Date of issue:	Aug. 09, 2018	
Contents:	Total 53 pages.	
Testing laboratory	The Company	-C C C N
Name:		
Address:		Chaxi Sanwei Technical Industrial Park, trict, Shenzhen, Guangdong, China
Testing location:	Same as above.	
Manufacturer		
Name:		
Address:		
Factory	- GU - GU	
Name:		
Address:		
Test specification	The state of the s	C ** XU - 3
Standard:	EN 60950-1:2006+A11:2009	+A1:2010+A12:2011+A2:2013
Test procedure:		
31	A STATE OF THE STA	
Procedure deviation:		
Non-standard test method:		
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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Test item Product designation...... ACTIVE NOISE CANCELLATION BLUETOOTH HEADPHONE Brand name .....: LY Test model ..... ANC-CLF01 Rating(s)...... 5.0V -, 0.5A (Supplied by USB port) **Particulars** ⊠ movable ☐ hand-held Equipment mobility..... ☐ stationary ☐ for building-in ☐ direct plug-in □ pluggable equipment □ type A □ type B Connection to the mains...... permanent connection detachable power supply cord non-detachable power supply cord ✓ not directly connected to the mains □ continuous Operating condition ..... ☐ rated operating/ resting time: ⊠operator accessible Access location ..... restricted access location Over voltage category(OVC) ..... □OVC I □OVC II □OVC IV ☑other Mains supply tolerance(%) or absolute mains supply values..... □Yes ⊠No Tested for IT power systems.....: N/A IT testing, phase-phase voltage(V) .....: ☐ Class I Class II ⊠Class III Class of Equipment.....: not classified Considered current rating of protective device as part of the building installation (A) .....: MPD2 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 object ...... N (/A) Test item does meet the requirement ...... P (ass) Test item does not meet the requirement ...... F (ail) Testing Date of receipt of test item ....... Jul. 25, 2018 

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#### Attachment

Attachment A.....: Photos of product

#### General remarks

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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 Re	cord:	Alles attorne	® Attestation of C	
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 09, 2018	Valid	Initial release

#### General product information

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

The series models are identical except for model name, no impact safety. All tests were conducted with model ANC-CLF01 represent all models.

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

The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of  $40 \,^{\circ}\text{C}$ .

#### 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.

## ACTIVE NOISE CANCELLATION BLUETOOTH HEADPHONE

LY

Model: ANC-CLF01



Made in China

#### 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.
- 5) Marking of other models are identical except for model name.

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1.5.1 General Compone 1.5.1 General Comply w standard  1.5.2 Evaluation  1.5.3 Thermal of 1.5.4 Transforme 1.5.5 Interconne 1.5.6 Capacitors 1.5.7 Resistors 1.5.7.1 Resistors supplement 1.5.7.2 Resistors between a 1.5.7.3 Resistors between a 1.5.7.3 Componer	with IEC 60950 or relevant component	Components which were found to affect safety aspects comply with the	P P P
1.5.1 General Comply w standard  1.5.2 Evaluation  1.5.3 Thermal of the standard  1.5.4 Transformation of the standard  1.5.5 Interconner  1.5.6 Capacitors  1.5.7 Resistors  1.5.7.1 Resistors supplement  1.5.7.2 Resistors between at the standard	with IEC 60950 or relevant component	affect safety aspects comply with the	P
1.5.1 General Comply w standard  1.5.2 Evaluation  1.5.3 Thermal of the standard standard  1.5.4 Transformed standard  1.5.5 Interconned standard  1.5.6 Capacitors  1.5.7 Resistors supplement  1.5.7.1 Resistors supplement  1.5.7.2 Resistors between at the standard standard	with IEC 60950 or relevant component	affect safety aspects comply with the	P P
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1.5.1 General Comply w standard  1.5.2 Evaluation  1.5.3 Thermal of the standard  1.5.4 Transformer of the standard  1.5.5 Interconner of the standard  1.5.6 Capacitors  1.5.7 Resistors of the standard  1.5.7.1 Resistors of the standard  1.5.7.2 Resistors of the standard  1.5.7.3 Resistors of the standard  1.5.7.3 Resistors of the standard  1.5.7.3 Componer	with IEC 60950 or relevant component	affect safety aspects comply with the	Р
Comply w standard  1.5.2 Evaluation  1.5.3 Thermal of the standard of the standard  1.5.4 Transformed of the standard of the s	with IEC 60950 or relevant component	affect safety aspects comply with the	
1.5.2 Evaluation  1.5.3 Thermal of the state	with IEC 60950 or relevant component	affect safety aspects comply with the	Р
1.5.3 Thermal of 1.5.4 Transformer 1.5.5 Interconner 1.5.6 Capacitors 1.5.7 Resistors 1.5.7.1 Resistors supplement 1.5.7.2 Resistors between a 1.5.7.3 Resistors between a 1.5.7.3 Componer 1.5.8 Componer		requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. (see appended table 1.5.1)	
1.5.4 Transformer  1.5.5 Interconner  1.5.6 Capacitors  1.5.7 Resistors  1.5.7.1 Resistors supplement  1.5.7.2 Resistors between a supplement and supplement are supplement are supplement and supplement are supplement are supplement and supplement are supplement are supplement are supplement as supplement are supplement as supplement are supplement as supplement are supplement ar	n 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.	P
1.5.5 Interconner  1.5.6 Capacitors  1.5.7 Resistors  1.5.7.1 Resistors supplement  1.5.7.2 Resistors between at 1.5.7.3 Resistors between at 1.5.7.3 Componer	controls	No any thermal controls.	N
1.5.6 Capacitors 1.5.7 Resistors 1.5.7.1 Resistors supplement 1.5.7.2 Resistors between at 1.5.7.3 Resistors between at 1.5.8 Componer	ners	No transformers.	N
1.5.7 Resistors 1.5.7.1 Resistors supplement 1.5.7.2 Resistors between at 1.5.7.3 Resistors between at 1.5.8 Componer	necting cables		N
1.5.7.1 Resistors supplement 1.5.7.2 Resistors between a 1.5.7.3 Resistors between a 1.5.8 Componer	rs bridging insulation	No such capacitor.	N
supplement 1.5.7.2 Resistors between a 1.5.7.3 Resistors between a 1.5.8 Componer	s bridging insulation	No such components.	N
1.5.7.3 Resistors between a 1.5.8 Componer	s bridging functional, basic or entary insulation		N
between a 1.5.8 Componer	s bridging double or reinforced insulation a.c. mains and other circuits		N. T
Towns Company	s bridging double or reinforced insulation a.c. mains antenna or coaxial cable		N
A STREET	ents in equipment for IT power systems	60	N
1.5.9 Surge sup	ppressors	No such parts.	N
1.5.9.1 General		The Manufacture of the Company	N
1.5.9.2 Protection	n of VDRs	Manufacture Comments	N
1.5.9.3 Bridging of	of functional insulation by a VDR	1 100	N
1.5.9.4 Bridging of	of basic insulation by a VDR	1111	₩ N
1.5.9.5 Bridging of insulation		O M. The state of	N

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	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
1.6.1	AC power distribution systems	No direct mains connection.	N
1.6.2	Input current	(See appended table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment	711	N N
1.6.4	Neutral conductor	Class III equipment, no neutral conductor.	on of Gam N

1.7	Marking and instructions		P
1.7.1	Power rating	See below	P
	Rated voltage(s) or voltage range(s) (V):	5.0V(no show)	
8 5	Symbol for nature of supply, for d.c. only:	== (no show)	
C MO	Rated frequency or rated frequency range (Hz) .:		
	Rated current (mA or A):	0.5A (no show)	
1.7.1.2	Identification markings	- 6	P
John Marie	Manufacturer's name or trademark or identification mark	See marking plate.	
a.C. Alles	Type/model or type reference	See marking plate.	
C -	Symbol for Class II equipment only:	Class III equipment	
相源	Other marking and symbols:	See marking plate.	
1.7.1.3	Use of graphical symbols		Р
1.7.2	Safety instructions and marking	Provided	Р
1.7.2.1	General	See below.	Р
1.7.2.2	Disconnect devices	No such devices	N
1.7.2.3	Overcurrent protective device		N
1.7.2.4	IT power distribution systems		N
1.7.2.5	Operator access with a tool		N
1.7.2.6	Ozone		N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N
1.7.4	Supply voltage adjustment:	No such devices used	N
不危	Methods and means of adjustment; reference to installation instructions:	CC TO SC	N
1.7.5	Power outlets on the equipment:	::11	N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):	Some Francisco Company	N
1.7.7	Wiring terminals	-0	N

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	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		N		
1.7.7.3	Terminals for d.c. mains supply conductors	我想 乐整 《燕	N Global N		
1.7.8	Controls and indicators	100 Marian CO No.	Р		
1.7.8.1	Identification, location and marking:	It is obviously unnecessary.	N		
1.7.8.2	Colours:	The colours used for LED are indicating function. No safety consideration.	P		
1.7.8.3	Symbols according to IEC 60417:	E The dead of the second of th	N		
1.7.8.4	Markings using figures:	Not applicable.	N		
1.7.9	Isolation of multiple power sources:	No direct connection to mains supply	N N		
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices used inside battery pack are not adjustable during normal use.	N.		
1.7.11	Durability	The marking withstands required tests.	P		
1.7.12	Removable parts	No such parts.	N		
1.7.13	Replaceable batteries	Non-replaceable battery	N		
The Kallonghia	Language(s):				
1.7.14	Equipment for restricted access locations:		N		

2	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy hazards	No hazardous parts in operator access areas.	P
2.1.1	Protection in operator access areas		Pomb
2.1.1.1	Access to energized parts	No energized parts.	Р
THE THE	Test by inspection:	- C 7000	
pal Compile	Test with test finger(Figure 2A):	100	
	Test with test pin (Figure 2B):	10000000000000000000000000000000000000	
	Test with test probe (Figure 2C):	S A COUNTY OF THE PARTY OF THE	
2.1.1.2	Battery compartments:	CO N	N
2.1.1.3	Access to ELV wiring		, N
Altesta	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	The State of the S	
2.1.1.4	Access to hazardous voltage circuit wiring	- C. Firm C.C.	N
2.1.1.5	Energy hazards:	No energy hazard in operator access area.	P

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	EN 60950-1					
Clause	Requirement - Test	Result – Remark	Verdict			
2.1.1.6	Manual controls	CO CO	N			
2.1.1.7	Discharge of capacitors in equipment	No primary circuit.	N			
Allesti	Time-constant (s); measured voltage (V):	70				
2.1.1.8	Energy hazards – d.c. mains supply	Not directly connect to mains supply	ion of Gam			
不怕	a)Capacitor connected to the d.c. mains supply:	Samuel Co	N			
Alles Jaron of Global C	b)Internal battery connected to the d.c. mains supply:	NO THE REAL PROPERTY.	N			
2.1.1.9	Audio amplifiers:	No any amplifiers	N			
2.1.2	Protection in service access areas	Marine de Marine de Caracteria	O N			
2.1.3	Protection in restricted access locations		N			

2.2	SELV circuits	The transfer of the	Р
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.	P
2.2.3	Voltages under fault conditions (V)	Within SELV limits.	Р
2.2.4	Connection of SELV circuits to other circuits:		N

2.3	TNV circuits		N
2.3.1	Limits	No TNV circuits.	N
2	Type of TNV circuits:		N
2.3.2	Separation from other circuits and from accessible parts		N
2.3.2.1	General requirements		N
2.3.2.2	Protection by basic insulation	C 700 1U-	N
2.3.2.3	Protection by earthing	700	N
2.3.2.4	Protection by other constructions:	一	N 🦸
2.3.3	Separation from hazardous voltages	The district of the state of th	N
34X	Insulation employed:	Signature Contract Co	N
2.3.4	Connection of TNV circuits to other circuits		N
Allestation of	Insulation employed:	超調 本	armound N
2.3.5	Test for operating voltages generated externally	Se S	N_

1	ules the	(R) 494			
1	2.4	Limited current circuits		N	

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	EN 60950-1						
Clause	Requirement - Test	Result – Remark	Verdict				
2.4.1	General requirements	No limited current circuits to be evaluated.	N				
2.4.2	Limit values		N				
-C Alles	Frequency (Hz):		N				
	Measured current (mA):	And Commission Co. St. of College Co.	N				
五 五	Measured voltage (V):	-0	N				
Altestation of G	Measured capacitance (nF or μF):	100	Ν				
2.4.3	Connection of limited current circuits to other circuits	The state of the s	N				

2.5	Limited power sources		N
69	a)Inherently limited output	# W K	- N
	b)Impedance limited output	S S S S S S S S S S S S S S S S S S S	N
I All	c)Regulating network limited output under normal operating and single fault condition	GC SCC	N
· · · · · · · · · · · · · · · · · · ·	d)Overcurrent protective device limited output	报 测	N
CO	Max. output voltage (V), max. output current (A), max. apparent power (VA):	K. E	
一根型	Current rating of overcurrent protective device (A)		N
To d Global Com	Use of integrated circuit (IC) current limited		N

2.6	Provisions for earthing and bonding		N
2.6.1	Protective earthing	Class III equipment.	N
2.6.2	Functional earthing		N 🧌
- C	Use of symbol for functional earthing:		N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General State of the state of t	- 60	N
2.6.3.2	Size of protective earthing conductors		N
	Rated current (A), cross-sectional area (mm2), AWG:	O. W. F. A. Gold Communication of the Communication	C N
2.6.3.3	Size of protective bonding conductors	200	N
Allestation of Global	Rated current (A), cross-sectional area (mm2), AWG:	· · · · · · · · · · · · · · · · · · ·	III N
2.6.3.4	Resistance of earthing conductors and their terminations, resistance( $\Omega$ ), voltage drop(V),test current (A), duration(min):	GC F. T. CC F. T.	N
2.6.3.5	Colour of insulation:	11	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
2.6.4	Terminals	60 60	N
2.6.4.1	General		N
2.6.4.2	Protective earthing and bonding terminals		The N
3	Rated current (A), type and nominal thread diameter (mm)	A STATE OF THE PARTY OF THE PAR	ond N
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	CC . DO	N
2.6.5	Integrity of protective earthing	我想 不是	N
2.6.5.1	Interconnection of equipment	S S S S S S S S S S S S S S S S S S S	N°
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	CC . Ye	N
2.6.5.3	Disconnection of protective earth		N
2.6.5.4	Parts that can be removed by an operator	S SE STORY	N
2.6.5.5	Parts removed during servicing	C. The C.C.	N
2.6.5.6	Corrosion resistance	Co No	N
2.6.5.7	Screws for protective bonding	To the same	N
2.6.5.8	Reliance on telecommunication network or cable distribution system	Martin Committee Contraction - Contraction	N

2.7	Overcurrent and earth fault protection in primary circuits		
2.7.1	Basic requirements	No primary circuits.	N
	Instructions when protection relies on building installation		N
2.7.2	Faults not covered in 5.3.7	- E- F	N 👊
2.7.3	Short-circuit backup protection		Nombra
2.7.4	Number and location of protective devices:		N
2.7.5	Protection by several devices	C 300 SU-	N
2.7.6	Warning to service personnel:	-CO P	N

2.8	Safety interlocks	The second secon	N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	100	N
2.8.3	Inadvertent reactivation	超测 下	M Supplier N
2.8.4	Fail-safe operation	3. The state of th	N
-100	Protection against extreme hazard	-C - CO	N
2.8.5	Moving parts		N

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	EN 60950-1		
Clause	Requirement - Test	Result – Remark	Verdict
2.8.6	Overriding	CO CO .	N
2.8.7	Switches and relays		N 📶
2.8.7.1	Contact gaps (mm):	100	Th N
2.8.7.2	Overload test	是 · · · · · · · · · · · · · · · · · · ·	on of Com
2.8.7.3	Endurance test	O Marian Co	N
2.8.7.4	Electric strength test	- GO D	N
2.8.8	Mechanical actuators		N 🚙

2.9	Electrical insulation		Р
2.9.1	Properties of insulating materials	100	Р
2.9.2	Humidity conditioning		N
	Humidity (%),temperature (°C):	S SE STORY	
2.9.3	Grade of insulation	Functional insulation.	Р
2.9.4	Separation from hazardous voltages	CO NO.	N
(S) \$\frac{\pi}{\pi}\]	Method(s) used	超 加	

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
110	Frequency		N
	Pollution degrees		N
0 = \$	Reduced values for functional insulation	- 12- 17	N
- C Billegran	Intervening unconnected conductive parts		N
9	Insulation with varying dimensions		N
711	Special separation requirements		N
Kampilance .	Insulation in circuits generating starting pulses	- 60	N
2.10.2	Determination of working voltage	- M	N
2.10.3	Clearances	The tempore to the tempore	N
2.10.3.1	General	3 # Julian Co	N
2.10.3.2	Mains transient voltages	/ \G	N
The station of Grown	a)AC mains supply:		N
100	b)Earthed d.c. mains supplies:	The comment of the co	N
les	c)Unearthed d.c. main supplies:	C Brown	N
A THE	d)Battery operation:	60 00	N

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Clause	Requirement – Test	Result – Remark	Verdict
2.10.3.3	Clearances in primary circuits	CO " CO"	N
2.10.3.4	Clearances in secondary circuits	20 10 B	N
2.10.3.5	Clearances in circuits having starting pulses		N
2.10.3.6	Transients from a.c. mains supply:	E TO SE	N
2.10.3.7	Transients from d.c. mains supply:		N
2.10.3.8	Transients from telecommunication networks and cable distribution systems	CC DO	N
2.10.3.9	Measurement of transient voltage levels	T. B. The St. Committee	0 N
	a)Transients from a mains supply	Secretary Contract Co	U N
(R) ##4	For a.c. mains supply:	300	N
-C	For d.c. mains supply:	Till .	₩ N
9	b)Transients from	The Company of The Land	N
2.10.4	Creepage distances	® ## data control of the state	N
2.10.4.1	General	GO CO	N
2.10.4.2	Material group and comparative tracking index	, The state of the	N
60°	CTI tests:	The The Third Comment of the Comment	N
2.10.4.3	Minimum creepage distances	The state of the s	N
2.10.5	Solid insulation		N
2.10.5.1	General		N
2.10.5.2	Distances through insulation		N
2.10.5.3	Insulation compound as solid insulation		N
2.10.5.4	Semiconductor device		N
2.10.5.5	Cemented joints	-	N
2.10.5.6	Thin sheet material - General		N
2.10.5.7	Separable thin sheet material		N
17 mm	Number or layers(pcs):	-C 100 NO	N
2.10.5.8	Non-separable thin sheet material	30	N
2.10.5.9	Thin sheet material – standard test procedure	· 拉那	o N
	Electric strength test	S AND THE STATE OF	N
2.10.5.10	Thin sheet material – alternative test procedure	CO S	N
The callon of Global	Electric strength test	***	<sub>∰</sub> N
2.10.5.11	Insulation in wound components	The state of the s	N
2.10.5.12	Wire in wound components	8 M Address Of the American	N
7111	Working voltage	60 700	N
20mp	a)Basic insulation not under stress:	lin-	N .

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Clause	Requirement - Test	Result – Remark	Verdict
F 700	b)Basic, supplementary, reinforced insulation:	60 60 a	N
Continue	c)Compliance with Annex U:		N
-C	Two wires in contact inside wound component; angle between 45° and 90°:	AND THE OF	N
2.10.5.13	Wire with solvent-based enamel in wound components	GC TO THE REAL PROPERTY OF THE PERTY OF THE	N
The lation of Great	Electric strength test	NO P	N
- 6	Rountine test	A TO THE REAL PROPERTY.	N
2.10.5.14	Additional insulation in wound components	- F dodnicom	N
4	Working voltage:	20 1	N
(C) Altesta	-basic insulation not under stress:		, N
6	-Supplementary, reinforced insulation:	下程, 1000	mortalizados N
2.10.6	Construction of printed boards	(a) The state of t	N
2.10.6.1	Uncoated printed boards	CC - CC	N
2.10.6.2	Coated printed boards		N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	CE THE OF THE COMMENT	N com
2.10.6.4	Insulation between conductors on different layers of a printed board	- 6.	N
Lation of Global	Distance through insulation		N
<b>\C</b>	Number of insulation layers(pcs):		N
2.10.7	Component external terminations		N
2.10.8	Tests on coated printed boards and coated components		N
2.10.8.1	Sample preparation and preliminary inspection		N
2.10.8.2	Thermal conditioning		N
2.10.8.3	Electric strength test	C. 700	N
2.10.8.4	Abrasion resistance test	100 E	N
2.10.9	Thermal cycling	是	N
2.10.10	Test for Pollution Degree 1 environment and insulating compound	O M. H. Sandara	CN
2.10.11	Test for semiconductor devices and cemented joints	, Fee	N
2.10.12	Enclosed and sealed parts	The Barbara The	omphanta N

3	WIRING, CONNECTIONS AND SUPPLY	- CO	<b>1</b> CO	Р
3.1	General		711	Р

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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.	The Pomplian
3.1.3	Securing of internal wiring	Internal wiring is reliable secured	Р
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	The state of the s	N
3.1.6	Screws for electrical contact pressure		N
3.1.7	Insulating materials in electrical connections		N
3.1.8	Self-tapping and spaced thread screws	· · · · · · · · · · · · · · · · · · ·	mplance N
3.1.9	Termination of conductors	The Same of the Control of the Contr	N
litte:	10 N pull test	-C - CO	N
3.1.10	Sleeving on wiring		N

3.2	Connection to a mains supply		estation of N
3.2.1	Means of connection	Class III equipment	N
3.2.1.1	Connection to an a.c. mains supply		N
3.2.1.2	Connection to a d.c. mains supply		N
3.2.2	Multiple supply connections		N
3.2.3	Permanently connected equipment		N
O The state	Number of conductors, diameter (mm) of cable and conduits:		
3.2.4	Appliance inlets		N
3.2.5	Power supply cords		N
3.2.5.1	AC power supply cords	20 m	N
hal Coll.	Type:	1 11	
NO	Rated current (A), cross-sectional area (mm²), AWG:	The Manual Company of the State	
3.2.5.2	DC power supply cords	20	N
3.2.6	Cord anchorages and strain relief		N
Altestan	Mass of equipment (kg), pull (N):	下程 ***	·
	Longitudinal displacement (mm):	(S) The state of contract (C) and the state of the state	
3.2.7	Protection against mechanical damage	CO - CO	N
3.2.8	Cord guards		N

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		-//10/	
	EN 60950-1		
Clause	Requirement - Test	Result – Remark	Verdict
111	D (mm); test mass (g)	60 60	
Comp	Radius of curvature of cord (mm):		
3.2.9	Supply wiring space	70	₹ N

3.3	Wiring terminals for connection of external con	ductors	N
3.3.1	Wiring terminals	CO D	N
3.3.2	Connection of non-detachable power supply cords	不是那	N
3.3.3	Screw terminals	Maring Colors O Maring Colors	O N
3.3.4	Conductor sizes to be connected	· GO	N
GC i	Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> ):	下 <sup>连 测</sup>	
3.3.5	Wiring terminal sizes	© Standard Colonia Col	N
IIII Emplares	Rated current (A), type and nominal thread diameter (mm):	CC SCO	
3.3.6	Wiring terminals design	拉那	N
3.3.7	Grouping of wiring terminals	The state of the s	Station of N
3.3.8	Stranded wire	-6	N

3.4	Disconnection from the mains supply		N
3.4.1	General requirement	Class III equipment	N
3.4.2	Disconnect devices		N
3.4.3	Permanently connected equipment	- X- E	N
3.4.4	Parts which remain energized		N
3.4.5	Switches in flexible cords		N
3.4.6	Single-phase equipment and d.c. equipment		N
3.4.7	Three-phase equipment	CO . E	N
3.4.8	Switches as disconnect devices		N
3.4.9	Plugs as disconnect devices	The total areas of the second	N N
3.4.10	Interconnected equipment	S A Maria Comment Comm	N
3.4.11	Multiple power sources	1 60	N
152 - 130			

3.5	Interconnection of equipment	A TANGETON OF THE STREET	P
3.5.1	General requirements	C Market	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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Clause	Requirement - Test	F	Result – Remark	Verdict
3.5.4	Data ports for additional equipment	ou of Glopal Colu		N

4	PHYSICAL REQUIREMENTS			The Property	
4.1	Stability	The Compliance	The Compliance	The Compliance	© Aggregation of the N
不怕	Angle of 10°	© Francisco	on of Cops	Manufacturion of Contraction of Cont	N
F Honor Global	Test: force (N)		600		N

4.2	Mechanical strength	The Total Control	Passanon
4.2.1	General	See below	Р
8 5	Rack-mounted equipment.		N
4.2.2	Steady force test, 10 N	表型 不明	N
4.2.3	Steady force test, 30 N	Section of the second section of the section of the second section of the section	N
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	Р
4.2.5	Impact test	30	N
EC PART	Fall test	The Transfer of the Commence o	N
O	Swing test	El de Company	N
4.2.6	Drop test; height(m):	1m; No damage of the enclosure, no energy hazards or damage to enclosure integration after the test.	Р
4.2.7	Stress relief test	70°C, 7hours, no hazard.	Р
4.2.8	Cathode ray tubes	No cathode ray tube.	N
7/	Picture tube separately certified:	7 3 53	N
4.2.9	High pressure lamps	No high pressure lamp	N
4.2.10	Wall or ceiling mounted equipment; force (N):		N

4.3	Design and construction	2.C 100	Р
4.3.1	Edges and corners	Edges and corners are rounded.	Р
4.3.2	Handles and manual controls; force (N):	The filler The Company	ON:
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.	P
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	N
THE STATE OF	Torque	60 60	N

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Clause	Requirement – Test	Result – Remark	Verdict
	Compliance with the relevant mains plug standard	CC CC X	N
4.3.7	Heating elements in earthed equipment	No heating elements.	N
4.3.8	Batteries	E TA BERNER	P
* T	-Overcharging of a rechargeable battery	(see appended table 4.3.8)	Р
FA Commi	-Unintentional charging of a non-rechargeable battery	Rechargeable battery	N
1.G	-Reverse charging of a rechargeable battery	Battery pack polarity cannot be reversed.	N
	-Excessive discharging rate for any battery	(see appended table 4.3.8)	P
4.3.9	Oil and grease	No Oil and grease.	Ν
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N 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
® <b>%</b>	Quantity of liquid (I):		N
aC Me	Flash point (°C):	The state of the s	N
4.3.13	Radiation; type of radiation:	The state of the s	P
4.3.13.1	General		Р
4.3.13.2	lonizing radiation	No ionizing radiation	N
~ C	Measured radiation (pA/kg):		-
	Measured high-voltage (kV):		-
	Measured focus voltage (kV):		-
® A State	CRT markings:		
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	Norm
1111	Part, property, retention after test, flammability classification:		N
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	- GO E	N
4.3.13.5	Lasers (including laser diodes) and LEDs	LEDs for indicator only	Р
4.3.13.5.1	Lasers (including laser diodes)	T. T. Samuel St.	N
	Laser class:	3 Manufacture Company	
4.3.13.5.2	Light emitting diodes (LEDs)	Indicating LED only.	Р
4.3.13.6	Other types:		N

4.4	Protection against hazardous moving parts		N
4.4.1	General	No hazardous moving parts.	N

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EN 60950-1			
Clause	Requirement - Test	Result – Remark	Verdict
4.4.2	Protection in operator access areas	CO CO	N
Committee (Committee Committee Commi	Household and home/office document/media shredders		N
4.4.3	Protection in restricted access locations	表型 不是 · · · · · · · · · · · · · · · · · ·	on of Globa N
4.4.4	Protection in service access areas	and Comments of the Comments o	N
4.4.5	Protection against moving fan blades	CO "	N
4.4.5.1	General		N
N.C	Not considered to cause pain or injury. a):	<b>水</b> 卷	N
	Is considered to cause pain, not injury. b):	Marine de Constante de Constant	U N
® <b>4</b>	Considered to cause injury. c):	, CO D	N
4.4.5.2	Protection for users	<b>A</b>	₩ N
	Use of symbol or warning	The Market of the Street of th	N
4.4.5.3	Protection for service persons	© All control of the state of t	N
i iliji	Use of symbol or warning:	60 00	N

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

4.6	Openings in enclosures			N
4.6.1	Top and side openings	C Mes	10	N
pal Court	Dimensions (mm):	10	lie-	
4.6.2	Bottoms of fire enclosures	The same	IN TO THE REAL PROPERTY.	o N
	Construction of the bottom:	S A STATE OF THE S	tation of Global	
4.6.3	Doors or covers in fire enclosures	60		N
4.6.4	Openings in transportable equipment		all	, N
4.6.4.1	Constructional design measures	不恒	孙	N
	Dimensions(mm):	CE SEE ALLEIDY OF GLODIO	(C) Allestation of C	N
4.6.4.2	Evaluation measures for larger openings	CO - (	30	N
4.6.4.3	Use of metallized parts		lin:	N

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Clause	Requirement - Test	Result – Remark	Verdict
4.6.5	Adhesives for constructional purposes	60 60	N
Comp	Conditioning temperature (°C), time (weeks):	30 B	

4.7	Resistance to fire	K E TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	Р
4.7.1	Reducing the risk of ignition and spread of flame	Use of plastic with the required flammability classes.	Р
Allestation of C	Method 1, selection and application of components wiring and materials	Method 1 used	P
	Method 2, application of all of simulated fault condition tests	Martin de Comment Comm	C N
4.7.2	Conditions for a fire enclosure	- CO D	Р
4.7.2.1	Parts requiring a fire enclosure	See appended table 1.5.1	₽ P
4.7.2.2	Parts not requiring a fire enclosure	The state of the s	N
4.7.3	Materials		P
4.7.3.1	General	60 10	Р
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1	P
4.7.3.3	Materials for components and other parts outside fire enclosures	The state of the s	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	P _
5.1	Touch current and protective conductor current	N
5.1.1	General	N
5.1.2	Equipment under test (EUT)	N
5.1.2.1	Single connection to an a.c. mains supply	N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	N © #
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	N
5.1.3	Test circuit	N
5.1.4	Application of measuring instrument	arrollarice N
5.1.5	Test procedure	N-
5.1.6	Test measurements	N
Compliance	Test voltage (V):	N

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Clause	Requirement - Test	Result – Remark	Verdict
711	Measured touch current (mA):	GO GO V	N
Comp	Max. allowed touch current (mA):		N
Allostali	Measured protective conductor current (mA):	700	N
30	Max. allowed protective conductor current (mA) :	· 我们们	N
5.1.7	Equipment with touch current exceeding 3.5 mA:	O American	N
5.1.7.1	General:	CO D	N
5.1.7.2	Simultaneous multiple connections to the supply		N
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks	A CO TO SEE STATE OF SEE	O N
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system	<b></b>	N
	Test voltage (V):	O Manufacture C Manufacture	N
T Water	Measured touch current (mA):	GU NO	N
8 %	Max. allowed touch current (mA):	- W	N
5.1.8.2	Summation of touch currents from telecommunication networks	K. E. Marie C. S.	N
拉利	a)EUT with earthed telecommunication ports:		N
Figure of Clobal Communities and the Communities of Clobal Communi	b)EUT whose telecommunication ports have no reference to protective earth		N

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

Abnormal operating and fault conditions		P	
Protection against overload and abnormal operation	(see appended table 5.3)	Р	
Motors		N	
Transformers	No transformers	N	
Functional insulation:	See appended table 5.3. Complies with c)	Р	
Electromechanical components		N	
Audio amplifiers in ITE:	A The Comment of the Control	N	
Simulation of faults	Result see appended table 5.3.	P	
Unattended equipment	100	N	
	Protection against overload and abnormal operation  Motors  Transformers  Functional insulation:  Electromechanical components  Audio amplifiers in ITE:  Simulation of faults	Protection against overload and abnormal operation (see appended table 5.3)  Motors  Transformers  Functional insulation	

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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.	The P
5.3.9.2	After the tests	No fire, no danger.	on of Grand

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	GUN
6.1.2	Separation of the telecommunication network from earth	
6.1.2.1	Requirements	₩ N
	Test voltage (V):	- Fallonio
	Current in the test circuit (mA):	Allestation
6.1.2.2	Exclusions:	N

6.2	Protection of equipment users from overvoltages on telecommunication networks	
6.2.1	Separation requirements	N
6.2.2	Electric strength test procedure	N
6.2.2.1	Impulse test	N
6.2.2.2	Steady-state test	N
6.2.2.3	Compliance criteria	N

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

7	CONNECTION TO CABLE DISTRIBUTION SYSTI	EMS	N
7.1	General	· · · · · · · · · · · · · · · · · · ·	o 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	Sec and Ac	<b>ON</b>
7.3	Protection of equipment users from overvoltages on the cable distribution system	A SET TO COMPANY OF THE STATE O	N
7.4	Insulation between primary circuits and cable distribution systems	GC SGC	N

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Clause	Requirement - Test	Result – Remark	Verdict
7.4.1	General	60 60	N
7.4.2	Voltage surge test		N and
7.4.3	Impulse test		Th N

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01	EN 60950-1	T	\
Clause	Requirement – Test	Result – Remark	Verdict
Α	ANNEX A, TESTS FOR RESISTANCE TO HEAT	<del>\</del> U \ \U \ \\	N
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		
A.1.1	Samples	· 校型	
	Wall thickness (mm):	Same of the state	
A.1.2	Conditioning of samples; temperature (°C):		N
A.1.3	Mounting of samples		N
A.1.4	Test flame (see IEC 60695-11-3)	The state of the s	N
	Flame A, B, C or D	© # Handward @ # Handward C	
A.1.5	Test procedure	,	N
A.1.6	Compliance criteria	310	, ™N
	Sample 1 burning time (s)	到 天 流	
	Sample 2 burning time (s):	Samuel Company	
2 100000 1100	Sample 3 burning time (s):	60 00	
A.2 @ @	Flammability test for fire enclosures of movable edexceeding 18 kg, and for material and components 4.7.3.2 and 4.7.3.4)		N E
A.2.1	Samples, material:	- C. M. 20	
EN TOUR	Wall thickness (mm):		
A.2.2	Conditioning of samples		N
A.2.3	Mounting of samples		N
A.2.4	Test flame (see IEC 60695-11-4)		N
0 - 1	Flame A, B or C		
A.2.5	Test procedure		N
A.2.6	Compliance criteria		N
lin	Sample 1 burning time (s):		
KI THE	Sample 2 burning time (s):	CO.	
Dal Co.	Sample 3 burning time (s):	700	
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8	OF THE STATE OF TH	- N
T. X	Sample 1 burning time (s):	CO S	
The mon of Global's	Sample 2 burning time (s):	and the same of th	
Atte	Sample 3 burning time (s):	on The Manual The	
A.3	Hot flaming oil test (see 4.6.2)	and Samuel Samue	N
A.3.1	Mounting of samples	GO LGO	N
A.3.2	Test procedure		N

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and the shall					rttl)	
4	EN 60950-1					
Clause	Requirement - Test		Result - Remark	(	Verdict	
A.3.3	Compliance criterion	(i) Francisco	-60	CO .	N	

BO	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONE 5.3.2)	DITIONS (see 4.7.2.2 and	T N omnibered
B.1	General requirements	® # Janord Globa	N
- F Global Co	Position:	-C **	
Allestation	Manufacturer:		
<b>√</b> C	Туре:	I the same	
	Rated values	ion of Globan © Miller Jahor of C	
B.2	Test conditions	CO D	N
B.3	Maximum temperatures		₩ N
B.4	Running overload test	The Common of The Cor	N
B.5	Locked-rotor overload test	© Mindalon of Co.	N
F 1910	Test duration (days):		
© #	Electric strength test: test voltage (V):		
B.6	Running overload test for d.c. motors in secondary circuits	The state of the s	F. Noat
B.6.1	General	-11	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 c	ircuits	N
B.7.1	Test procedure		N in
B.7.2	Alternative test procedure; test time (h):		N Compliana
B.7.3	Electric strength test		N
B.8	Test for motors with capacitors	C The CO	N C
B.9	Test for three-phase motors		N
B.10	Test for series motors	10000000000000000000000000000000000000	N
	Operating voltage (V):	The standard of the standard o	

C F That Co	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N
Attestation.	Position	No transformers	
	Manufacturer	A The state of the	
-TILL	Type:	-0 - 60	
Compliance	Rated values:		

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	EN 60950-1			
Clause	Clause Requirement - Test Result - Remark			Verdict
利	Method of protection	60	CO TO	
C.1	Overload test		70	N
C.2	Insulation	-01	III;	JAN N Transporter
5	Protection from displacement of windings:	K Manual Co	The Compliance	® # John N

D	ANNEX D, MEASURING INSTRUMENTS I	FOR TOUCH-CURRENT	TESTS (see 5.1.4)	N
D.1	Measuring instrument	测	- FI	N
D.2	Alternative measuring instrument	The templane	The sound comme	N

E 8 %	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	N
-------	---	---

F	ANNEX F, MEASUREMENT	OF CLEARANCES	AND CREEPAGE	DISTANCES	N
	(see 2.10)				100

G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		
G.1	Clearances	The state of the s	F. Nod
G.1.1	General	E Samuelle C	Altestan N
G.1.2	Summary of the procedure for determining minimum clearances		N
G.2	Determination of mains transient voltage (V):		N
G.2.1	AC mains supply		N
G.2.2	DC mains supply		N
G.2.3	Unearthed DC mains supply		N and
G.2.4	Battery operation		N Complant
G.3	Determination of telecommunication network transient voltage (V)		N
G.4	Determination of required withstand voltage (V):	- CO - EV	N
G.4.1	Mains transients and internal repetitive peaks:		N
G.4.2	Transients from telecommunication networks:	The The state of t	National
G.4.3	Combination of transients	© Martin de Carlos	N
G.4.4	Transients from cable distribution systems	) - CO P	N
G.5	Measurement of transient levels (V)	710	₩N
	a) Transients from a mains supply	III	Sal Conn
lin	For an a.c. mains supply	C Filment - C Filmen	N
KE THE	For a d.c. mains supply	100 NO	N
® 4	b) Transients from a telecommunication network	- The	N

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	EN 60950-1		
Clause	Requirement - Test	Result – Remark	Verdict
G.6	Determination of minimum clearances:	GO GO .	N
Comp	The state of the s		

H	ANNEX	H, IONIZING R	ADIATION (see 4.3.13)	)	liti:	- 30	Nompliance
				The second	1651	- 4	2008

J	不恒	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	N
5年	on of Global O	Metal used:	

K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	5.3.7)	N <sub>ije</sub> stellon
K.1	Making and breaking capacity	Manda C Manda	N
K.2	Thermostat reliability; operating voltage (V):	100	N
K.3	Thermostat endurance test; operating voltage (V)	· · · · · · · · · · · · · · · · · · ·	N
K.4	Temperature limiter endurance; operating voltage (V)	CC TO LOC TO	N
K.5	Thermal cut-out reliability		N ,
K.6	Stability of operation	THE SECTION OF SECTION	N <sub>oal</sub> compli

L The Comp	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	N
L.2	Adding machines and cash registers	N
L.3	Erasers	N
L.4	Pencil sharpeners	N
L.5	Duplicators and copy machines	N
L.6	Motor-operated files	N
L.7	Other business equipment	Р

M	ANNEX M, CRITERIA FOR TELEPHONE RINGIN	IG SIGNALS (see 2.3.1)	N
M.1	Introduction	The State of the S	N
M.2	Method A	© Marting of Color	N
M.3	Method B	) - CO P	N
M.3.1	Ringing signal	70	₽ PN
M.3.1.1	Frequency (Hz)	III	
M.3.1.2	Voltage (V)	C Filment - C Filmen	
M.3.1.3	Cadence; time (s), voltage (V):	100 NO	
M.3.1.4	Single fault current (mA):	校 测	

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emark		Verdict	, of Gir
Die	- 46		_

Clause	EN 60950-1	Daguit Damani	\/a mali a t
Clause	Requirement – Test	Result – Remark	Verdict
M.3.2	Tripping device and monitoring voltage:	- CO - CO	N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N
M.3.2.2	Tripping device	The same of the sa	N
M.3.2.3	Monitoring voltage (V)	School Con (S. Martin Con )	N

N	ANNEX N, IMPULSE TEST GENERATORS (se clause G.5)	ee 2.10.3.4, 6.2.2.1, 7.3.2 and	N
N.1	ITU-T impulse test generators	© Manual Country (S. Manual Country)	N
N.2	IEC 60065 impulse test generator	C. January C. C. W.	N

P	ANNEX P, NORMATIVE REFERENCES		私	Completice P

Q	ANNEX Q, Voltage dependent resistors (VDRS)	(see 1.5.9.1)	N
omplia.	-Preferred climatic categories		N
-G	-Maximum continuous voltage	The transfer of the state of th	N
G	-Combination pulse current	The tombard Samuel Company	N
<b>小</b>	Body of the VDR Test according to IEC 60695- 11-5		N
destation of C	Body of the VDR. Flammability class of material ( min V-1)		N

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

S	ANNEX S, PROCEDURE FOR IMPULSE TESTI	NG (see 6.2.2.3)	N
S.1	Test equipment	The Bendance The Target Commence	N
S.2	Test procedure	© ## android Color © ## android Color of the androi	N
S.3	Examples of waveforms during impulse testing	0 - 60	N

T ANNEX T, GUIDAN	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER					
(see 1.1.2)	The Manual of the Control of the Con	The Compliance	© Management of Glow	(B) Allestation C.	< G	

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	EN 60950-1	
Clause	Requirement – Test Result – Remark	Verdict
Omphance J. All	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)	GN
© \$	The second secon	拉
v O	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	O FE TO N
V.1	Introduction	N
V.2	TN power distribution systems	N
illus lation of		
N	ANNEX W, SUMMATION OF TOUCH CURRENTS	® N₂
<i>N</i> .1	Touch current from electronic circuits	N
W.1.2	Earthed circuits	N
W.2	Interconnection of several equipments	N
W.2.1	Isolation	N N
N.2.2	Common return, isolated from earth	N
N.2.3	Common return, connected to protective earth	N
K1 🐞	C.1)  Determination of maximum input current	N N
X.2	Overload test procedure	N
station of Co.	- C	
1	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	N
· /.1	Test apparatus	N
۲.2 <sub>ه.ه.</sub>	Mounting of test samples	N
<b>7.3</b>	Carbon-arc light-exposure apparatus:	N
Y.4	Xenon-arc light exposure apparatus:	N
lin:		- 3
Z onplant	ANNEX Z, OVERVOLTAGE CATEGORIES(see2.10.3.2 and Clause G.2)	N
- 0		TIM.
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N
-		10
3B 7	ANNEX BB, CHANGES IN THE SECOND EDITION	
Attestation		The completee
CC	ANNEX CC, Evaluation of integrated circuit (IC) circuit limiters	Francis N
CC.1	General (March 1997)	N

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Test program 1.....

CC.2

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	EN 60950-1				
Clause	Requirement - Test	Result – Remark	Verdict		
CC.3	Test program 2	GO GO	N		
CC.4	Test program 3		N		
CC.5	Compliance		N		

DD	ANNEX DD, requirements for the mounting means of rack-mounted equipment		
DD.1	General	GO	N
DD.2	Mechanical strength test, variable N:	111	N
DD.3	Mechanical strength test, 250N, including end stops:	S A The state of t	N
DD.4	Compliance:	, CO D	N

EE	ANNEX EE, Household and home/office document/	media shredders	N
EE.1	General	© Allegation of the Control of the C	N
EE.2	Marking and instructions	30	N
® 4	Use of markings or symbols:	100	N
CO	Information of user instructions, maintenance and/or servicing instructions:	The state of the s	N
EE.3	Compliance:		N
EE.4	Disconnection of power to hazardous moving parts:		N
	Use of markings or symbols:		N
EE.5	Protection against hazardous moving parts		N
0 5	Test with test finger (figure 2A):	55° B	N
- 6	Test with wedge probe (figure EE1 and EE2):		N

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Clause	Requirem	ent - Test			Res	sult – Remark	Verdict
EN EN	60950-1:20	06/A11:2009/A	1:2010/A12:2	:011/A2:2013 – (	CENELEC CC	MMON MODIFICAT	IONS
(a) E		subclauses, no -1 and it's ame		nd figures which a prefixed "Z"	are additional t	to those in	
Contents (A2:2013)	Add the following annexes:  Annex ZA (normative) Normative references to international publications with their corresponding European publications  Annex ZB (normative) Special national conditions  Annex ZD (informative) IEC and CENELEC code designations for flexible cords						P
General		the —countryll to the following		reference docume	ent (IEC 6095	0-1:2005)	P
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	C AMO
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	
	2.2.3	Note	2.2.4	Note	2.3.2	Note	IIII.
	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	Compliants
	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	
	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	拉
	4.7.3.1	Note 2	5.1.7.1	Note 3 & 4	5.3.7	Note 1	Fin of Global Coll
	6	Note 2 & 5	6.1.2.1	Note 2	6.1.2.2	Note	Allestan
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	
	G.2.1	Note 2	Annex H	Note 2			
General A1:2010)	the state of the s	the "country" r		ference documer	nt (IEC 60950-	1:2005/A1:2010)	Р
	1.5.7.1	Note		6.1.2.1	Note 2		- F
G. Alles	6.2.2.1	Note 2		EE.3	Note	4 0005(40 0040)	1 Tellomoli
General A2:2013)	according 2.7.1 6.2.2.	to the following Note *	g list:	ference documer  2.10.3.1  Modification rema	Note 2		P
l.1.1 A1:2010)	Replace t NOTE 3 Th multimedia	he text of NOT ne requirements	E 3 by the fol of EN 60065 m EIEC Guide 11		meet safety re	quirements for	40

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EN 60950-1 Clause Requirement - Test Result - Remark Verdict 1.3.Z1 Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones. NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations -Part 2: Guidelines to associate sets with headphones coming from different manufacturers. (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 1.5.1 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. (Added info\*) New Directive 2011/65/11 \* 1.7.2.1 In addition, for a PORTABLE SOUND SYSTEM, the instructions Ν (A1:2010) shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss. 1.7.2.1 In EN 60950-1:2006/A12:2011 (A12.2011) Delete NOTE Z1 and the addition for Portable Sound System.

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Add the following clause and annex to the existing standard and

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

A personal music player is a portable equipment for personal

primarily uses headphones or earphones that can be worn in

- is designed to allow the user to listen to recorded or

broadcast sound or video; and

- allows the user to walk around while in use.

or on or around the ears;

Zx Protection against excessive sound pressure from personal music players

Attestation of Global Compliance

amendments.

Zx.1 General

music players.

use, that:



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

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	EN 60950-1		
Clause	Requirement - Test	Result – Remark	Verdic
3C ***	All other equipment shall:  a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and	AGC	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 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	THE STATE OF THE S	
	acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time; and NOTE 2 Examples of means include visual or audible signals. Action from the user is always required. NOTE 3 The 20 h listening time is the accumulative listening time independent how often and how long the personal music player has been switched off.		A James C
	<ul> <li>d) have a warning as specified in Zx.3; and</li> <li>e) not exceed the following: <ol> <li>equipment provided as a package (player with Its listening device), the acoustic output shall be ≤ 100 dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and</li> <li>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"</li> </ol> </li></ul>	A Market of the Control of the Contr	S E TO TO SOUND
	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.		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.		The state of the s

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EN 60950-1				
Clause	Requirement - Test	Result – Remark	Verdict	
3C	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:	NGC - C	N M	
	"To prevent possible hearing damage, do not listen at high volume levels for long periods."  Figure 1 – Warning label (IEC 60417-6044)			
3G 1	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.	T. 提	K 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
	Zx.4 Requirements for listening devices (headphones and e	earphones)	Р	
	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).	AGO THE THE THE PARTY OF THE PA	N 12 12 12 12 12 12 12 12 12 12 12 12 12 1	
	NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.			
3C ***	Zx.4.2 Wired listening devices with digital input With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.		N Spanne Commit	
	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.).		29	
	NOTE An example of a wired listening device with digital input is a USB headphone.	Indiance S. S. Total Completo		

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	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 output LAeq,T of the listening device shall be ≤ 100 dBA.</li> </ul>	AGG IN THE TOTAL AND THE TOTAL	P P THE PROPERTY OF THE PARTY O
	NOTE An example of a wireless listening device is a Bluetooth headphone.		AUG:
	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.	GC Marie	P
Court	NOTE Test method for wireless equipment provided without listening device should be defined.	1000000	不危
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	C	N
GC *	<ul><li>included as parts of the equipment;</li><li>b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be</li></ul>		L Man
	provided by protective devices in the building installation; c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	The state of the s	N S
And a state of Course	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.	GC P	The state of the s
2.7.2	This subclause has been declared 'void'.	edans C Alles	N
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	111	N

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	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".	PCC P	
	In Table 3B, replace the first four lines by the following:  Up to and including 6   0,75 a)	环 拉	The Global Compiler
	Over 6 up to and including 10  (0,75) b) 1,0	E danional colour	N
	Over 10 up to and including 16  (1,0) c) 1,5	Atte	
	In the conditions applicable to Table 3B delete the words "in some countries" in condition <sup>a)</sup> .	11	
SO	In NOTE 1, applicable to Table 3B, delete the second sentence.	Junes San June of Company	C Allestation
3.2.5.1 (A2:2013)	NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD	CC >	N
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:	不 地 測	Semplemes N
lin	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	Andread S. M. S.	NG
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following:  NOTE Z1 Attention is drawn to:		植
	1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and	C. Marine January	FA Contraction
	2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation).		
N	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.		N
Annex H	Replace the last paragraph of this annex by:		- TI
	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.		N
	Replace the notes as follows:		~ (
	NOTE These values appear in Directive 96/29/Euratom.  Delete NOTE 2.	Anna No.	
Bibliography	Additional EN standards.	- 100 Per 100	0 - 4

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR	
T Thomas	CORRESPONDING EUROPEAN PUBLICATIONS	_

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Naa	Descripement Test	Decult Demont	Mandia	
Clause	Requirement – Test	Result – Remark	Verdict	
E THE	ZB ANNEX (normative) SPECIAL NATIONAL COND	DITIONS (EN)		
.2.4.1	In <b>Denmark</b> , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		N The State of the	
.2.13.14	In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.7.2.1 and 7.3 of this annex.	A Standard Commercial	N	
.5.7.1	In <b>Finland</b> , <b>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.	A SECOND	N N	
.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).	GO D	N	
.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.	E STATE OF THE STA	N	
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"	S. A. T. T. A. T.	N The state of the	
.7.2.1	In Sweden: "Apparaten skall anslutas till jordat uttag"		N	
A11:2009)	In <b>Norway</b> and <b>Sweden</b> , the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.			
	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	CC The state of th	KG III	

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	EN 60950-1		
Clause	Requirement - Test	Result – Remark	Verdict
超 测	ZB ANNEX (normative) SPECIAL NATIONAL COND	ITIONS (EN)	CO
	"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."  NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		N N
	Translation to Norwegian (the Swedish text will also be accepted in Norway):  "Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet."	AGC MARKET	NG C
	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 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."	C. Marine C.C.	
I.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,	No.	N
	som giver forbindelse til stikproppens jord."		3
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.	GC THE	S N

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	EN 60950-1			
Clause	Requirement - Test	Result – Remark	Verdic	
松那	ZB ANNEX (normative) SPECIAL NATIONAL CON	DITIONS (EN)	C	
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 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.	Front Complaint	Stobe South 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.	NGO IN	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.	© A John Comme	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.	- ( - 20	N	
2.7.1	In the <b>United Kingdom</b> , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.		N	
2.10.5.13	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.		N	

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	EN 60950-1			
Clause	Requirement - Test	Result – Remark	Verdict	
地	ZB ANNEX (normative) SPECIAL NATIONAL COND	DITIONS (EN)		
3.2.1.1	In <b>Switzerland</b> , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:	A Marketina	N THE STATE OF THE	
	SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A	Affect ation of	3,0	
	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			
3.2.1.1	In <b>Denmark</b> , supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1.	AGC I	N	
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	C. B. T. C.C.	The state of the s	
All de la	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	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.		N N	
	Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.	- 10-		
	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.		GC	
The State of	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	CO D	:III)	

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
超 测	ZB ANNEX (normative) SPECIAL NATIONAL COND	DITIONS (EN)	69
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.	A CO	N AND AND AND AND AND AND AND AND AND AN
	NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	The state of the s	C THE STATES
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.		N N
3.2.4	In <b>Switzerland</b> , for requirements see 3.2.1.1 of this annex.	10	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.	Off Hadden Contained	N N Comp
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:	C. 7.0	N
4.3.6	• 1,25 mm² to 1,5 mm² nominal cross-sectional area.  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		N
GC *	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.		i de de la company
4.3.6	In Ireland, DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.		N ® ##

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	EN 60950-1		
Clause	Requirement - Test	Result - Remark	Verdict
松和	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	GU
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	A THE STATE OF THE	N y
	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.		GG
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:	To the Company of the	Styles Comple N
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	P.G.	
	- two layers of thin sheet material, each of which shall pass the electric strength test below, or	The total Company	3 A Ford Gold Con
	- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	~C. ~CC	Alles Sta
	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		

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	EN 60950-1	T .	
Clause	Requirement – Test	Result – Remark	Verdict
检测	ZB ANNEX (normative) SPECIAL NATIONAL COND	DITIONS (EN)	G
GC #	- 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		N ill
	manufacturing, using a test voltage of 1,5 kV.  It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).	AGO AGO	),C
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	The state of the s	© ##
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	C Medical Control	,0
	- 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 state of the s	J. J
	- the additional testing shall be performed on all the test specimens as described in EN 60384-14:	AGC ***	NO.
	- 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.	T. W. T.	写 J Cood Com
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.	c.* 20	N
7.2	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , for requirements see 6.1.2.1 and 6.1.2.2 of this annex.		N. T
	The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.		
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.	Mines	N
7.3	In <b>Norway</b> , for installation conditions see EN 60728-11:2005.	lin:	N

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1.5.1	TABLE: list of critical compor	nents		P	
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Battery	Shen Zhen Shi ChangTaiXin New Energy Co., LTD	CTX 081340	3.7V, 360mAh Max charging current: 360mA Max discharging current: 360mA	IEC62133	IEC62133 test report
Battery wire	Interchangeable	Interchangeable	28AWG, 80°C	UL758	UL AVLV2
Speaker	Interchangeable	Interchangeable	32ohm, 25mW	- H	Tested with appliance
РСВ	Interchangeable	Interchangeable	V-1, 130°C	UL94, UL796	UL ZPMV2
Enclosure	SABIC INNOVATIVE PLASTICS B V	EXL9335(X)(f1) (GG)	V-0,125°C, Min.1.5mm	UL94	UL E45329
Note(s):	100		THE COMMITTEE STATE OF	and Th	Joal Compilero

1.6.2	TABLE: e	electrical data (i	in normal con	ditions)			Р
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status	
3.7	0.032		0.12	70	Tel july	Normal condition	The station of Globa
5.0	0.25	0.5	1.25	Comp.	F of Global O	Normal condition	100

2.1.1.5c)1) TABLE: max. V, A, VA test							
Voltage (rated) (V)	Voltage (rated) (V)				nax.) (VA)		
© Francisco	© Millermond G	1 50					
Note(s):							

2.1.1.5c)2)	TABLE: stored energy	C Marie	- C 71111	10	N
Capacitance C (μF)			Voltage U (V)	Ener	gy E (J)
10			Kalince	The transferred	® Francon c
Note(s):	- All	Manufacto Manufacto	® # Global Co	® Marganon of Grow	40

2.2	2.2 TABLE: evaluation of voltage limiting components in SELV circuits					
Component	Component (measured between)				(normal operation)	Voltage Limiting
Component	(measured betw	een)		Vpeak	Vd.c.	Components
K Kingharde	The Manual Completion -	® Allestation of Co.				311

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Fault test pe	erformed on vo	Itage limiting comp	onents	oltage measured	(V) in SELV	circuits (V pea	k or V d.c.)
,		T	The state of the s	mplance ®	Artestation of Glo	® ## Globa	(S) Affestation
Note(s):	授测	® # Julion of Clotha	® # Jation of Clobal	10°	-00		

2.5 TABLE: limited power source measu	rement	- FIN		# Th N	
Measured Uoc (V) with all load circuits	lsc (	A)	VA		
disconnected:	Meas.	Limit	Meas.	Limit	
	G- :	<u></u>			
Note(s):		18 7111	TK Kampiana	(S) A STORE	

2.10.2	TABLE: Working	g voltage measurement					N
Location		RMS voltage	(V)	Peak voltage (V)		Comments	
	10			III	不能	nos F.Go	Combine
Note(s):	-Till	The Compliance	不下意	hollanos @ #	testation of Grant	Allestallon	100

2.10.3 and 2.10.4 TABLE: clearance a	Th. 182 3111	N 1				
Clearance cl and creepage distance dcr at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)
The Completion - First Captus Comme						
Note(s):	O,					

2.10.5	TABLE: distance through insulation measurements						
Distance th	rough insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)		
Note(s):	The state of the s	~ ***** ****	- Fuest	A # **	\G'\		

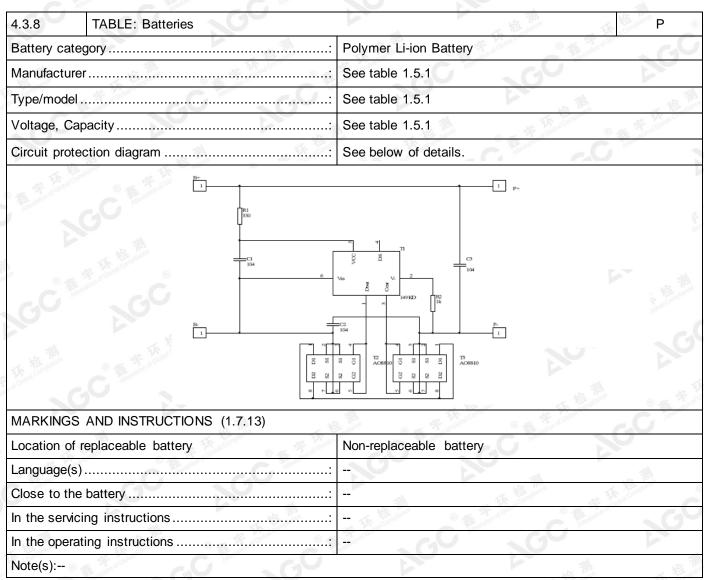
- 1 1 2 m - 1 1 2 m	(0) (0)	2250	4200						
4.3.8	TABLE: Batte	eries		0	110	7		lin:	Р
The tests of not available	4.3.8 are applied	cable only v	when approp	riate batter	y data is	The Companies	® Front aloub	A Compliance	Patterstood
Is it possible	to install the b	attery in a r	everse polar	ity position	?6		d connecto attery pack.		N
(8) Alfestation of	Non-red	hargeable	batteries		I	Rechargeabl			
	Disch	arging	Uninten-	Cha	rging	Disch	arging	Reverse	Charging
拉那	Meas. current	Manuf. Specs.	tional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf.S pecs.	Meas. current	Manuf. Specs.

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20-	A.G	五	250mA	360mA	32mA	360mA	F. J. Compil	C Margarita
A Compliance	GG F	GC	310mA	360mA	34mA	360mA	130	7 · · · · · · · · · · · · · · · · · · ·
			KET THE	大 校 河	3	In Completion	8 £ 1	Verdict
s	料 测	® Mary and or or	(S) A	Talion of Global Co	No 🌯	Cloud	C	Р
ne battery	A C	,0	60	<b>\C</b>	No			P
ame or exp	ulsion of mo	Iten metal			No.			P
- Electric strength tests of equipment after completion of tests						Ethal Committee (C. Aller and Colonia Committee Colonia Coloni		
The Country of Colors	The Global Compa	(c) A. Friday	Global Cumir	G	CO		100	
		ne battery ame or expulsion of mo	ne battery ame or expulsion of molten metal	310mA  s ne battery ame or expulsion of molten metal	310mA 360mA  s ne battery ame or expulsion of molten metal	310mA 360mA 34mA  s No ne battery No ame or expulsion of molten metal No	310mA 360mA 34mA 360mA  Solve battery  No  No  me battery  No  No  No  No  No  No  No  No  No  N	310mA 360mA 34mA 360mA Section 1. S



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4.5	TABLE: maximum t	emperatures		THE STATE	® <b>45</b>	Tion of Global Co	(6) A Thomas and the state of t	P
TO TIME	Test voltage (V)	The state of the s	© ## <sub>184</sub>	a):5.0VDC b): Battery			A Riverton	
mavimum	temperature T of part/a	nt•			Т	(°C)		allowed
maximum	temperature i or part/a	al.		a)			b)	Tmax (°C)
PCB			57.4		50.9	130		
Battery			46.4		2	14.7	Ref.	
Battery wir	re State and red	0	10	47.8		4	45.2	
Internal en	closure			46.7		44.6		125
External e	nclosure	AST JULY	不被	43	.3	0 %	41.4	
Ambient	F F Made Comment of the State o	© 4	Alion of Globa	40	.0		10.0	
Tempe	rature T of winding	t <sub>1</sub> (°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
			//			E Thoughout	a di Globa	- 0

4.5.5	TABLE: ball pressure test of thermoplastic parts			* Compliance	N
10	allowed impression diameter (mm)	Y Kil	® # The station of Co	-6	
Part		Test tem	nperature(°C)		on diameter mm)
Attestation	C - 10				
Note(s):					ý

4.7	TABLE: Resistance to	fire	.07		P
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
	- 1				(
Note(s): Refe	er to table 1.5.1	The son of Clobia	a C	ites.	

5.1	TABLE: touch cur	rent measurement		To Manual Transport	The Compliance N. The Compliance of the Complian
Measured be	etween:		Measured(mA)	Limit(mA)	Comments/conditions
<b>长</b>	ompliance — F	The country of the co	-C	- GO	
Note(s):	2.0	- GC "		110	10 m

5.2	TABLE: electric strength tests and impulse tests	© Allegation of Control of Contro	C Allestano	N
Test volta	ge applied between:	Test voltage (V)	Breakdown	

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Mitestation of Carbon	NO	200			-	The Compliance	· **	ucs .
Note(s):			K Kindlenge	KE JULY	(C) All States and Co	n of Glow	Manager of Globa	® Attestation

5.3	TABLE: fault conditio		P. W.			
2.C 377.80	ambient temperature	(°C)	24.6-25.5			
0	rated markings of pov	wer supply	O A Find count			
Component Fault		Test voltage (V)	Test time	Fuse no.	Result	
Battery	Battery Output,S-C		10min		Unit shutdown immediately. No hazards.	
Battery Overcharge, B- and P-, S-C		5.0	7h	© # Food	No hazards. Battery enclosure: 31.2°C	
Battery Discharge, B- and P-, S-C		O Allestation of	2h	<u> </u>	No hazards. Battery enclosure: 29.3°C	
U1	Pin 4-3, S-C	5.0	10min		Unit shutdown immediately. No hazards.	
R3	S-C	5.0	10min	Compliance @	No damage and hazards.	
Speaker S-C		ite atonor Gio	10min	100	No damage and hazards.	
Fault: S-C =	short circuit	10		in	The Management of the American	The Manual of the same of the
Note:			湿 测	TK THE THE	© Francisco Control Co	Hestalion of Giv

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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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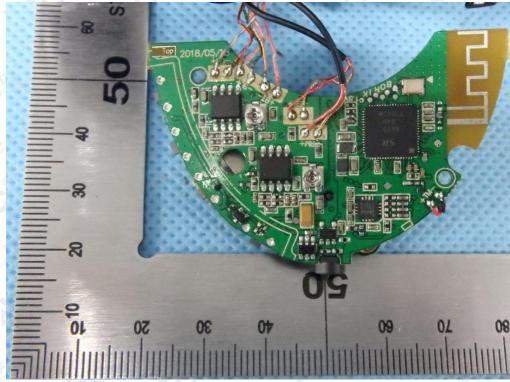


Fig.5 - partview

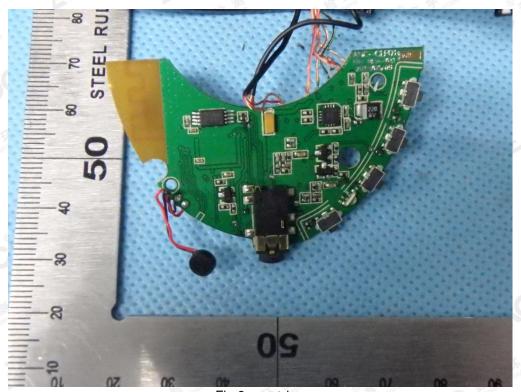


Fig.6 – partview

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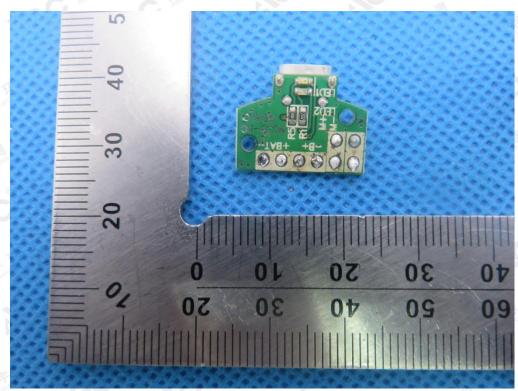


Fig.7 - partview

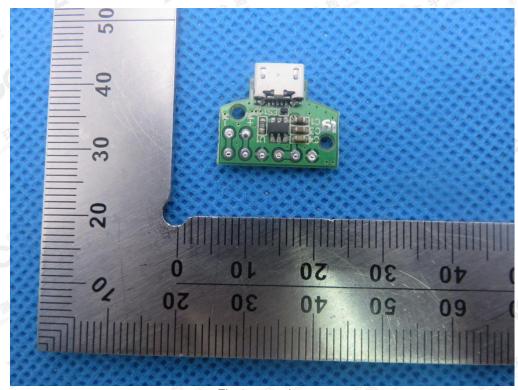


Fig.8 - partview

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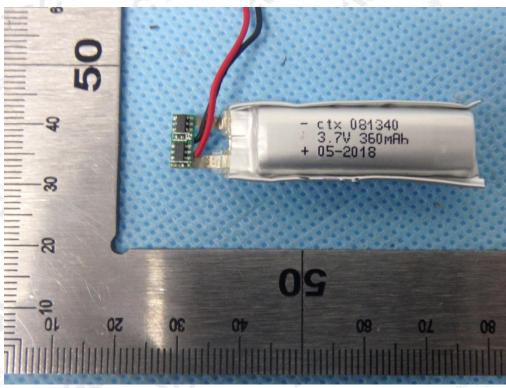


Fig.9 - battery

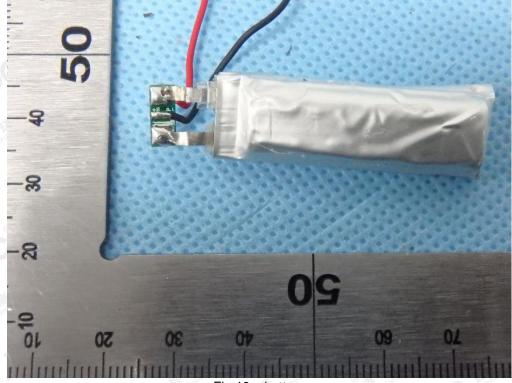


Fig. 10 – battery

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