

Safety Test Report

Report No.: AGC02561170601ES01

PRODUCT DESIGNATION	: LED Lighted Bluetooth Running Headphone	
BRAND NAME	N/A	
MODEL NAME	: P326.721, 16LY26	
CLIENT		
DATE OF ISSUE	: Jul. 12, 2017	
STANDARD(S)	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:20	013
REPORT VERSION	: V1.0	

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

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No.16 E

Attestation of Global Compliance



Report No.: AGC02561170601ES01 Page 2 of 52

all all all all	TEST REPORT	
	EN 60950-1	
Inform	nation technology equip Part 1: General requirer	
Report Reference No	AGC02561170601ES01	
Tested by (+ signature)	Devin Ren	Devin Ren
Reviewed by (+ signature)	Jenny Li	Jennyli
Approved by (+signature):	Matte He (Authorized Officer)	Devin Ren Jennyli mette He
Date of issue:	Jul. 12, 2017	C NO AN
Contents:	Total 52 pages.	
Testing laboratory		The state of the s
Name:	Attestation of Global Complian	nce (Shenzhen) Co., Ltd.
Address:	2/F., Building 2, No.1-No.4, Cl Gushu, Xixiang, Bao'an Distric	haxi Sanwei Technical Industrial Park, ct, Shenzhen, Guangdong, China
Testing location	Same as above.	The Barrier of The Strategies
Manufacturer		
Name:		
Address:		
Factory	The Towner of The	- C - C
Name		
Address:		Lite Lite B.
Test specification		
Standard	EN 60950-1:2006+A11:2009+	A1·2010+A12·2011+A2·2013
Test procedure:		
Procedure deviation:		
Non-standard test method:		
Test Report Form/blank test report	- ¹ 0	GG I M
Test Report Form No Test Report Form(s) Originator		

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 3 of 52

Master TRF:	Dated 2017-01
Test item	
Product designation:	LED Lighted Bluetooth Running Headphone
Brand name:	
Test model:	P326.721
Series model:	16LY26
Rating(s):	5.0V , 0.5A (Supplied by USB port)
Particulars	The third the state of the
Equipment mobility	
Connection to the mains	
	permanent connection
9	detachable power supply cord
THE THE THE	non-detachable power supply cord into the mains
Operating condition	. Scontinuous
	rated operating/ resting time:
Access location	
Over voltage category(OVC)	
Mains supply tolerance(%) or absolute values	mains supply N/A
Tested for IT power systems	
IT testing, phase-phase voltage(V)	
Class of Equipment	
Considered current rating of protective of the building installation (A)	
Pollution degree(PD)	:: PD 1 PD2 D2
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 of	oject : N (/A)
Test item does meet the requirement	: P (ass)
Test item does not meet the requireme	ent : F (ail)
Testing	
Date of receipt of test item	: Jul. 04, 2017
Date(s) of performance of test	: Jul. 05 – Jul. 12, 2017

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No.16 E

Attestation of Global Compliance

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		2017-07-12	Valid	Original report

General product information

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

All models are identical except for model name, no impact safety. All tests were conducted with model P326.721 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 °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.



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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NO.16 E

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Report No.: AGC02561170601ES01 Page 5 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
		The other the the other	F Wald
1	GENERAL		Р
人也			
1.5	Components		Р
1.5.1	General	1 H H H H H	Р
الم من	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)	CP The Mark
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.	P
1.5.3	Thermal controls	No any thermal controls.	Ν
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	Ρ
1.5.6	Capacitors bridging insulation	No such capacitor.	Ν
1.5.7	Resistors bridging insulation	No such components.	N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	A Barris CI	N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	NOC NOC	N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable	T B B T T B	N
1.5.8	Components in equipment for IT power systems		N
1.5.9	Surge suppressors	No such parts.	Ν
1.5.9.1	General		S N
1.5.9.2	Protection of VDRs	A A A A A A A A A A A A A A A A A A A	N
1.5.9.3	Bridging of functional insulation by a VDR		N
1.5.9.4	Bridging of basic insulation by a VDR	LOU P	Ν
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		Ν

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 6 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
1.6	Power interface	A BE BE	Р	
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		N	
1.6.4	Neutral conductor	Class III equipment, no neutral conductor.	N	

1.7	Marking and instructions		Р
1.7.1	Power rating	See below	P
30	Rated voltage(s) or voltage range(s) (V)	5.0V(no show)	
板	Symbol for nature of supply, for d.c. only	= (no show)	
F Jours	Rated frequency or rated frequency range (Hz):	GUI	
and and	Rated current (mA or A):	0.5A (no show)	
1.7.1.2	Identification markings	The Barrier the Three Conner	P
× 44	Manufacturer's name or trademark or identification mark:	BAR ACTION NO	
- F Strator	Type/model or type reference:	P326.721, 16LY26	
Sec. 1	Symbol for Class II equipment only:	Class III equipment	
	Other marking and symbols:	See marking plate.	
1.7.1.3	Use of graphical symbols	GO NO	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 N
1.7.2.5	Operator access with a tool	A DE LE TE	N
1.7.2.6	Ozone	E The Cart	N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	D N
1.7.4	Supply voltage adjustment:	No such devices used	N
	Methods and means of adjustment; reference to installation instructions	CC.	N
1.7.5	Power outlets on the equipment:	a do a la	N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):		N
1.7.7	Wiring terminals	- Friday	N

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No.16 E

AGC 8 Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 7 of 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		Ν
1.7.8	Controls and indicators		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.	Р
1.7.8.3	Symbols according to IEC 60417		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
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices used inside battery pack are not adjustable during normal use.	Ν
1.7.11	Durability	The marking withstands required tests.	Р
1.7.12	Removable parts	No such parts.	Ν
1.7.13	Replaceable batteries	Non-replaceable batteries	N
1945	Language(s):	The State of the S	
1.7.14	Equipment for restricted access locations:	C ³	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		Р
2.1.1.1	Access to energized parts	No energized parts.	Р
2	Test by inspection		
Y.	Test with test finger(Figure 2A)	A Anna C Brann	
12	Test with test pin (Figure 2B)		S
C.S.	Test with test probe (Figure 2C):		
2.1.1.2	Battery compartments	AT AN	N
2.1.1.3	Access to ELV wiring	C.C.	N
Hanna and Anna	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	SC NO	
2.1.1.4	Access to hazardous voltage circuit wiring		N
2.1.1.5	Energy hazards:	No energy hazard in operator access area.	S P

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 8 of 52

	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
2.1.1.6	Manual controls	the second	N		
2.1.1.7	Discharge of capacitors in equipment	No primary circuit.	N		
1	Time-constant (s); measured voltage (V)				
2.1.1.8	Energy hazards – d.c. mains supply	Not directly connect to mains supply	N		
mation of Con	a)Capacitor connected to the d.c. mains supply		N		
1	b)Internal battery connected to the d.c. mains supply	C. S. M. Barris C. C. Barris	CN		
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	10 A 8 A 8	N		

2.2	SELV circuits		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 C
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 second second	Ν

2.3	TNV circuits	S NO	Ν
2.3.1	Limits	No TNV circuits.	N
GU.	Type of TNV circuits:	A BARAN	Ν
2.3.2	Separation from other circuits and from accessible parts	CO CO	N
2.3.2.1	General requirements		N
2.3.2.2	Protection by basic insulation	The second	N
2.3.2.3	Protection by earthing	E E.	N
2.3.2.4	Protection by other constructions:		N
2.3.3	Separation from hazardous voltages		N
, C	Insulation employed:		N
2.3.4	Connection of TNV circuits to other circuits		N
AFF SH	Insulation employed:	C ^B	N
2.3.5	Test for operating voltages generated externally		N

2.4

Limited current circuits

Ν

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 9 of 52

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	EN 60950-1		1		
Clause	Requirement – Test	Result – Remark	Verdict		
2.4.1	General requirements	No limited current circuits to be evaluated.			
2.4.2	Limit values		N		
NR.	Frequency (Hz):		N		
Factoria	Measured current (mA):		N		
out all and a second	Measured voltage (V):	N. M. S. T. S.	Ν		
im.	Measured capacitance (nF or µF):	The State Carte	N		
2.4.3	Connection of limited current circuits to other circuits	Car Nor N	N		

2.5	Limited power sources	The state of the	N
环境	a)Inherently limited output	C ² \0	N
Fr of Glass	b)Impedance limited output	NO F	Ν
S	c)Regulating network limited output under normal operating and single fault condition	THE THE	N
	d)Overcurrent protective device limited output	2 C2 V	N
中环境	Max. output voltage (V), max. output current (A), max. apparent power (VA):	AGU	
Berne Contraction	Current rating of overcurrent protective device (A)	The state of the s	N
	Use of integrated circuit (IC) current limited	53 A	N

2.6	Provisions for earthing and bonding		Ν
2.6.1	Protective earthing	Class III equipment.	N
2.6.2	Functional earthing		N
下版	Use of symbol for functional earthing		N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General	The Barrier	N
2.6.3.2	Size of protective earthing conductors	- GO N	N
- C. ^{8,3}	Rated current (A), cross-sectional area (mm2), AWG		N
2.6.3.3	Size of protective bonding conductors	10 IN 10 - 10	N
A. M.	Rated current (A), cross-sectional area (mm2), AWG	C C C C	N
2.6.3.4	Resistance of earthing conductors and their terminations, resistance(Ω), voltage drop(V),test current (A), duration(min):	AV BALLER	N
2.6.3.5	Colour of insulation:	57 AV NO	N

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No.16 E

AGC 8 Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 10 of 52

EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict		
2.6.4	Terminals	A B B B	N		
2.6.4.1	General	The Frank of the second	N		
2.6.4.2	Protective earthing and bonding terminals		N		
Frank Contraction	Rated current (A), type and nominal thread diameter (mm):				
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	The Barnet C. B. T. Shows	N		
2.6.5	Integrity of protective earthing		N		
2.6.5.1	Interconnection of equipment		N		
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	B. B. B. B.	N		
2.6.5.3	Disconnection of protective earth		N S		
2.6.5.4	Parts that can be removed by an operator	CO F	Ν		
2.6.5.5	Parts removed during servicing		N		
2.6.5.6	Corrosion resistance	The Transformer of Standard	N		
2.6.5.7	Screws for protective bonding		N		
2.6.5.8	Reliance on telecommunication network or cable distribution system	No.	N		

2.7	Overcurrent and earth fault protection in primary circuits		
2.7.1	Basic requirements	No primary circuits.	N
~.C ³	Instructions when protection relies on building installation		N
2.7.2	Faults not covered in 5.3.7	The state of	N
2.7.3	Short-circuit backup protection		N
2.7.4	Number and location of protective devices:		N
2.7.5	Protection by several devices	The state	N
2.7.6	Warning to service personnel:	The stand of the stand	Ν

2.8	Safety interlocks	G	N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	a the a the and	N
2.8.3	Inadvertent reactivation		Ν
2.8.4	Fail-safe operation	No.	N
~ (Protection against extreme hazard		N
2.8.5	Moving parts	- F Standard B. Todaland	

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 11 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
2.8.6	Overriding	A BE AB	N	
2.8.7	Switches and relays	The Free Courses of the Courses	N	
2.8.7.1	Contact gaps (mm):	- C - C	N	
2.8.7.2	Overload test		N	
2.8.7.3	Endurance test	The second second	N	
2.8.7.4	Electric strength test	The the second second	N	
2.8.8	Mechanical actuators	13. CO .	N	
1000				

2.9	Electrical insulation		S P
2.9.1	Properties of insulating materials	Be and all	Р
2.9.2	Humidity conditioning		N S
Franciscon and Colorado	Humidity (%),temperature (°C):	CO P	
2.9.3	Grade of insulation	Functional insulation.	P
2.9.4	Separation from hazardous voltages	The transmission of the transmission	N
	Method(s) used		

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).	z
Contacca.	Frequency		N
- C. ³	Pollution degrees		N
0	Reduced values for functional insulation	K Barrow - S	N
5	Intervening unconnected conductive parts	CO*	N
F Indenstooner	Insulation with varying dimensions		N
Carlos .	Special separation requirements	A AND	N
1	Insulation in circuits generating starting pulses	The second	N
2.10.2	Determination of working voltage		N
2.10.3	Clearances		Ν
2.10.3.1	General		N
2.10.3.2	Mains transient voltages	A A A A A A A A A A A A A A A A A A A	N
<i>i</i> :	a)AC mains supply		N
Comparent .	b)Earthed d.c. mains supplies	NO PT	N
	c)Unearthed d.c. main supplies		N
20	d)Battery operation:	The State of State Cont	N

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 12 of 52

	EN 60950-1	1	r
Clause	Requirement – Test	Result – Remark	Verdict
2.10.3.3	Clearances in primary circuits	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
2.10.3.4	Clearances in secondary circuits	the Friday of the state of the	Ν
2.10.3.5	Clearances in circuits having starting pulses		N
2.10.3.6	Transients from a.c. mains supply		N
2.10.3.7	Transients from d.c. mains supply	四 下包	N
2.10.3.8	Transients from telecommunication networks and cable distribution systems	S. S. S. S. C. S. S. S. S.	N
2.10.3.9	Measurement of transient voltage levels		N
A 8.7	a)Transients from a mains supply		N
5	For a.c. mains supply	R The State	N
10.1	For d.c. mains supply		N
Fatores	b)Transients from		N
2.10.4	Creepage distances		N
2.10.4.1	General	The Barrier Branch	N
2.10.4.2	Material group and comparative tracking index	8. C. 8. C.	N
小地	CTI tests	CO P	N
2.10.4.3	Minimum creepage distances		N
2.10.5	Solid insulation	The state of the state	N
2.10.5.1	General	2 th C 1 - C 1	
2.10.5.2	Distances through insulation		Ν
2.10.5.3	Insulation compound as solid insulation		N
2.10.5.4	Semiconductor device	the the state of t	N
2.10.5.5	Cemented joints	C. 3	N
2.10.5.6	Thin sheet material - General		N
2.10.5.7	Separable thin sheet material		N
~	Number or layers(pcs)	the man of the second	N
2.10.5.8	Non-separable thin sheet material	C To and C The second	N
2.10.5.9	Thin sheet material – standard test procedure		N
C.B.	Electric strength test		N
2.10.5.10	Thin sheet material – alternative test procedure	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N
	Electric strength test	a sin a co	N
2.10.5.11	Insulation in wound components		N
2.10.5.12	Wire in wound components		N
S	Working voltage	The Bernard on The Street	N
4	a)Basic insulation not under stress:		N

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 13 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
10	b)Basic, supplementary, reinforced insulation:	A BE AB	N
	c)Compliance with Annex U:	The state of the s	N
THE P	Two wires in contact inside wound component; angle between 45° and 90°	CCT NOCT	N
2.10.5.13	Wire with solvent-based enamel in wound components		N
lin-	Electric strength test	a the Cart	N
5 months	Rountine test		N
2.10.5.14	Additional insulation in wound components		N
G.	Working voltage		N
	-basic insulation not under stress	China State - China	N
The Base	-Supplementary, reinforced insulation		N
2.10.6	Construction of printed boards		N
2.10.6.1	Uncoated printed boards	AND AND	N
2.10.6.2	Coated printed boards	- 3 1 - 3 3 - 6	N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		
2.10.6.4	Insulation between conductors on different layers of a printed board	T. B. M. F. T. Y	N
- 1	Distance through insulation	C* - C*	N
- Hard	Number of insulation layers(pcs)		N
2.10.7	Component external terminations		N
2.10.8	Tests on coated printed boards and coated components	A.B. M. B.T. M. C.	N
2.10.8.1	Sample preparation and preliminary inspection		N
2.10.8.2	Thermal conditioning		N N
2.10.8.3	Electric strength test	The The State	N
2.10.8.4	Abrasion resistance test	The state	N
2.10.9	Thermal cycling		N
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N
2.10.11	Test for semiconductor devices and cemented joints	A STAR COM	N
2.10.12	Enclosed and sealed parts		N

3	WIRING, CONNECTIONS AND SUPPLY		Р			
3.1	General	臣刑	The Barrows	The states	- Birne	Р

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 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.	Ρ
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		N
3.1.6	Screws for electrical contact pressure		Ň
3.1.7	Insulating materials in electrical connections	The street Car	N
3.1.8	Self-tapping and spaced thread screws		N
3.1.9	Termination of conductors	CO F	Ν
	10 N pull test		Ν
3.1.10	Sleeving on wiring	The Theorem and The states	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	Ν
3.2.1.2	Connection to a d.c. mains supply	all a go	N
3.2.2	Multiple supply connections		N
3.2.3	Permanently connected equipment	ALL	N
0	Number of conductors, diameter (mm) of cable and conduits	C. Barris C. G.	
3.2.4	Appliance inlets		N
3.2.5	Power supply cords	A A	N
3.2.5.1	AC power supply cords	The same the transformer	N
	Туре	G C	
~ 1 · 1	Rated current (A), cross-sectional area (mm ²), AWG		
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief	C.C.	N
R	Mass of equipment (kg), pull (N)		
Conve	Longitudinal displacement (mm)		
3.2.7	Protection against mechanical damage	THE THE	Ν
3.2.8	Cord guards	- Friday - Friday - Friday	N

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No.16 E

AGC 8 Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 15 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
5	D (mm); test mass (g):	A BE AB	
	Radius of curvature of cord (mm)	The second of the second of the	
3.2.9	Supply wiring space		Ν

3.3	Wiring terminals for connection of external condu	uctors	N
3.3.1	Wiring terminals	The Bernard and Bernard Contract	N
3.3.2	Connection of non-detachable power supply cords	A COM NO	Ν
3.3.3	Screw terminals		Ň
3.3.4	Conductor sizes to be connected		N
玉橋	Rated current (A), cord/cable type, cross-sectional area (mm ²):	CARLE NOT	
3.3.5	Wiring terminal sizes		Ν
N	Rated current (A), type and nominal thread diameter (mm):	THE BEAM	
3.3.6	Wiring terminals design		N
3.3.7	Grouping of wiring terminals	NO	N
3.3.8	Stranded wire		N

3.4	Disconnection from the mains supply	- CP	N
3.4.1	General requirement	Class III equipment	N
3.4.2	Disconnect devices		N
3.4.3	Permanently connected equipment	The the state of t	N
3.4.4	Parts which remain energized		N
3.4.5	Switches in flexible cords	20 D	N
3.4.6	Single-phase equipment and d.c. equipment		N
3.4.7	Three-phase equipment	5 5 5 5 5 S	N
3.4.8	Switches as disconnect devices		S N
3.4.9	Plugs as disconnect devices		N
3.4.10	Interconnected equipment		Sh N
3.4.11	Multiple power sources	B. The	N

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

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 16 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdic
3.5.4	Data ports for additional equipment		Ν
		The second of th	Final Chara
4	PHYSICAL REQUIREMENTS		Р
4.1	Stability		Ν
alon of G	Angle of 10°	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
	Test: force (N):	5 B	N
1		Billion CO NO	5
4.2	Mechanical strength		Р
4.2.1	General	See below	∲ P
5	Rack-mounted equipment.	Be and all	N
4.2.2	Steady force test, 10 N	C* \0	N
4.2.3	Steady force test, 30 N	NGU F	Ν
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	P
4.2.5	Impact test	a Trainer - The Trainer - Co	◯ N
10	Fall test		Ν
- F Straton	Swing test		1 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.	P
4.2.7	Stress relief test	70°C, 7hours, no hazard.	Р
4.2.8	Cathode ray tubes	No cathode ray tube.	N
GU	Picture tube separately certified	B. E. There	N
4.2.9	High pressure lamps	No high pressure lamp	N
4.2.10	Wall or ceiling mounted equipment; force (N):		Ν

4.3	Design and construction	B. H. H.	Р
4.3.1	Edges and corners	Edges and corners are rounded.	Р
4.3.2	Handles and manual controls; force (N)		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.	P
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	Ν
~	Torque:	A B A B	Ν

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No.16 E

AGC 8 Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 17 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
NO	Compliance with the relevant mains plug standard	THE FREE	N
4.3.7	Heating elements in earthed equipment	No heating elements.	N
4.3.8	Batteries		Р
Frank Classe	-Overcharging of a rechargeable battery	(see appended table 4.3.8)	P
	-Unintentional charging of a non-rechargeable battery	Rechargeable battery	N
- Contraction	-Reverse charging of a rechargeable battery	Battery pack polarity cannot be reversed.	N
- 82	-Excessive discharging rate for any battery	(see appended table 4.3.8)	Р
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	Ν
4.3.12	Flammable liquids:	The equipment does not contain flammable liquid.	N
	Quantity of liquid (I)	a film a billion a C	N
振	Flash point (°C)	- GOT A	N
4.3.13	Radiation; type of radiation:		P
4.3.13.1	General		Р
4.3.13.2	Ionizing radiation	No ionizing radiation	Ν
THE .	Measured radiation (pA/kg):	GUT SU	
6	Measured high-voltage (kV):		
C.C.	Measured focus voltage (kV):	The The Party of t	
	CRT markings	And Alexander Co	
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	N
Sec. 1 Sec.	Part, property, retention after test, flammability classification		N
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	The State	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
5	Laser class		
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	THE THE	N
4.4.1	General	No hazardous moving parts.	N

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 18 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
4.4.2	Protection in operator access areas	A REAL BRANCH	N
	Household and home/office document/media shredders	B.T. C.B.T. C.B.	N
4.4.3	Protection in restricted access locations		N
4.4.4	Protection in service access areas		N
4.4.5	Protection against moving fan blades	the man	Ν
4.4.5.1	General	The Barrier of Comments	N
an share	Not considered to cause pain or injury. a):		N
- 27	Is considered to cause pain, not injury. b):		N
30	Considered to cause injury. c):	B. A. B.	N
4.4.5.2	Protection for users		NG
F Jones Con	Use of symbol or warning:		N
4.4.5.3	Protection for service persons		Ν
N.C	Use of symbol or warning:	TA BASE TA TA	N

4.5	Thermal requirements		Р
4.5.1	General		P
4.5.2	Temperature tests	(see appended table 4.5)	Р
	Normal load condition per Annex L	C ³	
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat	No thermoplastic parts on which parts at hazardous voltage are directly mounted.	N

4.6	Openings in enclosures		N
4.6.1	Top and side openings	A THE STATE	N
	Dimensions (mm)	- F Martin - C Martin	
4.6.2	Bottoms of fire enclosures		N
C.34	Construction of the bottom		
4.6.3	Doors or covers in fire enclosures	B. A. B.	N
4.6.4	Openings in transportable equipment	a the co	N
4.6.4.1	Constructional design measures		N
	Dimensions(mm)		N
4.6.4.2	Evaluation measures for larger openings	The The	N
4.6.4.3	Use of metallized parts	The Second States	N

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No.16 E

AGC 8 Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 19 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
4.6.5	Adhesives for constructional purposes		N
	Conditioning temperature (°C), time (weeks):	The Francisco of Francisco	6

4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame	Use of plastic with the required flammability classes.	Р
A.	Method 1, selection and application of components wiring and materials	Method 1 used	P
13	Method 2, application of all of simulated fault condition tests		N
4.7.2	Conditions for a fire enclosure	the the state	P
4.7.2.1	Parts requiring a fire enclosure		P G
4.7.2.2	Parts not requiring a fire enclosure	GU LIV	N
4.7.3	Materials		Р
4.7.3.1	General	The Barrier of The State	Р
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	AGO LA	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.	Ν

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABI	NORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current	CC - CC	Ν
5.1.1	General	No. 10	N
5.1.2	Equipment under test (EUT)	The second second	N
5.1.2.1	Single connection to an a.c. mains supply	The Brance States	N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	NOC N	N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N
5.1.3	Test circuit	C B	Ν
5.1.4	Application of measuring instrument	G N	N
5.1.5	Test procedure		N
5.1.6	Test measurements	E A	N
	Test voltage (V)	Towner The score C	N

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 20 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
NC.	Measured touch current (mA):	18 18	Ν	
	Max. allowed touch current (mA):	The Freedoment of Freedoment	N	
1	Measured protective conductor current (mA):		N	
The Barris	Max. allowed protective conductor current (mA) .:		N	
5.1.7	Equipment with touch current exceeding 3.5 mA :		N	
5.1.7.1	General	The Barner - B. France	N	
5.1.7.2	Simultaneous multiple connections to the supply	13. CO \	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	GC & BOCK	NC	
and all a second	Test voltage (V)		Ν	
S	Measured touch current (mA):	The Barrier of The State	N	
	Max. allowed touch current (mA)	5 C	N	
5.1.8.2	Summation of touch currents from telecommunication networks	NGO LA	N	
and a start of the	a)EUT with earthed telecommunication ports:	The The	N	
-111	b)EUT whose telecommunication ports have no reference to protective earth	Claim COlair	N	

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

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

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No.16 E

Attestation of Global Compliance

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	Р
5.3.9.1	During the tests	No hazards.	Р
5.3.9.2	After the tests	No fire, no danger.	Р
auton of C		1 (B	ance .

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	NO
F. Same	Test voltage (V)	-
Angente .	Current in the test circuit (mA):	- 4
6.1.2.2	Exclusions	N N

6.2	Protection of equipment users from overvoltages on telecommunication networks		Ν
6.2.1	Separation requirements		N
6.2.2	Electric strength test procedure	The stand of the stand	N
6.2.2.1	Impulse test	C ³² - C ²²	N
6.2.2.2	Steady-state test	CO NO	Ν
6.2.2.3	Compliance criteria		Ν

6.3	Protection of the telecommunication wiring system from overheating	- C*	N
. T. 10	Max. output current (A):	20	
and a con	Current limiting method:	1A	

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 A A A A A A A A A A A A A A A A A A	N
7.3	Protection of equipment users from overvoltages on the cable distribution system	NOC AV	N
7.4	Insulation between primary circuits and cable distribution systems	The Barnes The Barnes	N

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 22 of 52

EN 60950-1					
Clause	Requirement – Test		Result – Remark		Verdict
7.4.1	General		the man	· ta The	N
7.4.2	Voltage surge test	AT THE	5 Frank 5	West of Cart	Ν
7.4.3	Impulse test	The other	C C	- CO."	N

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No.16 E



	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT	AND FIRE	N
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		
A.1.1	Samples:		
Franci Global	Wall thickness (mm):		
A.1.2	Conditioning of samples; temperature (°C)::	the second second	N
A.1.3	Mounting of samples:	C.C.	N
A.1.4	Test flame (see IEC 60695-11-3)		N
- 10	Flame A, B, C or D:		
A.1.5	Test procedure	A A A A	N
A.1.6	Compliance criteria		Ν
F John Con	Sample 1 burning time (s):		
and all a	Sample 2 burning time (s):		
N.C	Sample 3 burning time (s):	The Barrier The State	
A.2	Flammability test for fire enclosures of movable ec exceeding 18 kg, and for material and component 4.7.3.2 and 4.7.3.4)		N
A.2.1	Samples, material:		
	Wall thickness (mm):		
A.2.2	Conditioning of samples	- G [*]	N
A.2.3	Mounting of samples:		Ν
A.2.4	Test flame (see IEC 60695-11-4)		N
0	Flame A, B or C:	The the same	
A.2.5	Test procedure	C C C	N
A.2.6	Compliance criteria		N
station .	Sample 1 burning time (s):		
1	Sample 2 burning time (s):	The Barrier	
	Sample 3 burning time (s):		
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8		N
3	Sample 1 burning time (s):	B. I. B.	
	Sample 2 burning time (s):	- B 3	
R. P.	Sample 3 burning time (s):		
A.3	Hot flaming oil test (see 4.6.2)		N
A.3.1	Mounting of samples	The Barrier The Barrier	N
A.3.2	Test procedure	The second second	N

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No.16 E

Attestation of Global Compliance



	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
A.3.3	Compliance criterion	A B B B	N
N.		The Second of The Second	Franciscon State
B	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	CONDITIONS (see 4.7.2.2 and	N
B.1	General requirements		N
	Position:	B. Martin T. Martin	
14	Manufacturer:	C State C	
Controlling	Туре:		
-	Rated values:		
B.2	Test conditions	5 5 5	N
B.3	Maximum temperatures	and States CO	Ν
B.4	Running overload test	GO NO	N
B.5	Locked-rotor overload test		N
N.	Test duration (days):	The Barrier Barrier	
1	Electric strength test: test voltage (V):	53 C 32 \	
B.6	Running overload test for d.c. motors in secondary circuits	AGO EN	N
B.6.1	General	THE T	N
B.6.2	Test procedure	- 5 ³ - 5 ³	Ν
B.6.3	Alternative test procedure	CON NO	N
B.6.4	Electric strength test; test voltage (V)		N
B.7	Locked-rotor overload test for d.c. motors in secon	ndary circuits	N
B.7.1	Test procedure	The Barrow	N
B.7.2	Alternative test procedure; test time (h):		Ν
B.7.3	Electric strength test		N
B.8	Test for motors with capacitors	The second	N
B.9	Test for three-phase motors	A THE A	N
B.10	Test for series motors		N
- 6	Operating voltage (V):		

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N
The star	Position:	No transformers	
on Company	Manufacturer:	10-	
	Туре::	ALL ALL	
	Rated values:	The second second	

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No.16 E

Attestation of Global Compliance

(see 2.10)

Report No.: AGC02561170601ES01 Page 25 of 52

 EN 60950-1

 Clause
 Requirement – Test
 Result – Remark
 Verdict

 Method of protection
 Method of protection
 --

 C.1
 Overload test
 N

 C.2
 Insulation
 N

 Protection from displacement of windings
 N

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

E	ANNEX E, TEM	PERATURE RISE O	F A WINDING (se	e 1.4.13)		N	1
56.1	B.S. K.B.	The the second	- Francisco	C.3.	~G0	20	2
F	ANNEX F, MEA	SUREMENT OF CLE	ARANCES AND	CREEPAGE DIS	TANCES	N	

	(366 2.10)			
~		The Handward	The The Conner	A 40
G	ANNEX G, ALTERNATIVE METHOD FOR DETER	MINING MINIMUM	CLEARANCES	N
G.1	Clearances			Ν
G.1.1	General		1	N
G.1.2	Summary of the procedure for determining minimum clearances	The stand	A B F R	N
G.2	Determination of mains transient voltage (V):	GU .	GO	N
G.2.1	AC mains supply			N
G.2.2	DC mains supply	11	The the second	N
G.2.3	Unearthed DC mains supply	The Contraction	The state	N
G.2.4	Battery operation:	0.0		Ν
G.3	Determination of telecommunication network transient voltage (V):			N
G.4	Determination of required withstand voltage (V) . :	The Barbara	The South	Ν
G.4.1	Mains transients and internal repetitive peaks :	The south	- C ~	N
G.4.2	Transients from telecommunication networks:		P E	N
				164

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Combination of transients

For an a.c. mains supply

For a d.c. mains supply

Transients from cable distribution systems

a) Transients from a mains supply

Measurement of transient levels (V):

b) Transients from a telecommunication network

G.4.3

G.4.4

G.5



Report No.: AGC02561170601ES01 Page 26 of 52

	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
G.6	Determination of minimum clearances		N
		The Second States	Frank Carton
н	ANNEX H, IONIZING RADIATION (see 4.3.13)	C C C	Ν
The	C C C		- 01
Jund	ANNEX J, TABLE OF ELECTROCHEMICAL PC	TENTIALS (see 2.6.5.6)	N
	Metal used	The Barrier - B. From	
E. The	the state of the s		60
к	ANNEX K, THERMAL CONTROLS (see 1.5.3 ar	nd 5.3.7)	N 🔬
K.1	Making and breaking capacity		Ň
K.2	Thermostat reliability; operating voltage (V)	1 P	N
K.3	Thermostat endurance test; operating voltage (V)	CC* NO	N
K.4	Temperature limiter endurance; operating voltage (V)		N
K.5	Thermal cut-out reliability	a the state of the	N
K.6	Stability of operation		N

L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		
L.1	Typewriters		N
L.2	Adding machines and cash registers		Ν
L.3	Erasers		N
L.4	Pencil sharpeners	The Barrier The Street of Street	N
L.5	Duplicators and copy machines	- G ^a	N
L.6	Motor-operated files		Ν
L.7	Other business equipment		Р

М	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		
M.1	Introduction		N
M.2	Method A		N
M.3	Method B	No. The second	N
M.3.1	Ringing signal		N
M.3.1.1	Frequency (Hz):	NOU IN	
M.3.1.2	Voltage (V):		
M.3.1.3	Cadence; time (s), voltage (V):	The Same	
M.3.1.4	Single fault current (mA):	E C	

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No.16 E

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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
M.3.2	Tripping device and monitoring voltage:	1 B.P. 1 B.P.	N	
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	Barning C.B. States of C	N	
M.3.2.2	Tripping device		N	
M.3.2.3	Monitoring voltage (V):		N	

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

ANNEX P, NORMATIVE REFERENCES

Ρ

Q	ANNEX Q, Voltage dependent resistors (VDRS) (see 1.	5.9.1)	N
N.	-Preferred climatic categories:	Salar Barrow	N
	-Maximum continuous voltage:		Ν
4	-Combination pulse current:		🐀 N
B.	Body of the VDR Test according to IEC 60695- 11-5	THE REAL STREET	N
E. The	Body of the VDR. Flammability class of material (min V-1):	China Com	N

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

S	ANNEX S, PROCEDURE FOR IMPULSE TESTI	NG (see 6.2.2.3)	C N
S.1	Test equipment	- C - E	N
S.2	Test procedure		N
S.3	Examples of waveforms during impulse testing	A BAR AND	N

Tarraharta	ANNEX T, GUIDANCE ON PROTECTION AGAI	NST INGRESS OF WAT	ER	Ν
Order Contraction	(see 1.1.2)		1	

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No.16 E

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		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
	ANNEX U, INSULATED WINDING INSULATION (see 2.10.5.4)	WIRES FOR USE WITHOUT INTERLEAVED	N

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)			
V.1	Introduction		1	Ν
V.2	TN power distribution systems	14 11	T F Marine	Ν

W	ANNEX W, SUMMATION OF TOUCH CURRENT	S	N
W.1	Touch current from electronic circuits		N
W.1.2	Earthed circuits	A B	N
W.2	Interconnection of several equipments	The start of the start	N
W.2.1	Isolation		N
W.2.2	Common return, isolated from earth		N
W.2.3	Common return, connected to protective earth	The Barrier The	N

X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N
X.1	Determination of maximum input current	THE	Ν
X.2	Overload test procedure	- 3 C.3.	Ν

Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)		Ν
Y.1	Test apparatus:	- # · · · ·	Ν
Y.2	Mounting of test samples	The Barrow C	Ν
Y.3	Carbon-arc light-exposure apparatus:		Ν
Y.4	Xenon-arc light exposure apparatus::		Ν

Z	ANNEX Z,	OVERVOLTAGE	CATEGORIES(se	e2.10.3.2 and C	lause G.2)	N
	The Benning	The Thomas Comment	- A stand	C Barrow	0	200

 BB
 ANNEX BB, CHANGES IN THE SECOND EDITION
 --

 CC
 ANNEX CC, Evaluation of integrated circuit (IC) circuit limiters
 N

 CC.1
 General
 N

ANNEX AA, MANDREL TEST (see 2.10.5.8)

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No.16 E

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Test program 1.....

AA

CC.2

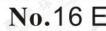


	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
CC.3	Test program 2	A BE AB	Ν
CC.4	Test program 3:	5 Turberton 5 Turberton - 1	Ν
CC.5	Compliance:		Ν

DD	ANNEX DD, requirements for the mounting means of rack-mounted equipment		Ν
DD.1	General	The the second second	Ν
DD.2	Mechanical strength test, variable N:		Ν
DD.3	Mechanical strength test, 250N, including end stops		Ν
DD.4	Compliance:	10 Th 10 - 5	Ν

EE	ANNEX EE, Household and home/office docume	ent/media shredders	Ν
EE.1	General		Ν
EE.2	Marking and instructions	The Barrier	Ν
	Use of markings or symbols	8.3 C. 1	Ν
T. The	Information of user instructions, maintenance and/or servicing instructions:	NOC IN	Ν
EE.3	Compliance:	THE T	Ν
EE.4	Disconnection of power to hazardous moving parts	COMPACT COMPACT	Ν
C ALACO	Use of markings or symbols:		Ν
EE.5	Protection against hazardous moving parts		Ν
	Test with test finger (figure 2A)	The therease and the second	Ν
,	Test with wedge probe (figure EE1 and EE2):	- Citer Co	Ν

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				EN 60950-1			
Clause	Requirer	nent – Test			Res	sult – Remark	Verdict
EN	60950-1:2	006/A11:2009/A	1:2010/A12:2	2011/A2:2013 - 0	CENELEC CO	MMON MODIFICAT	TIONS
		subclauses, no 0-1 and it's ame		nd figures which a prefixed "Z"	are additional	to those in	H. C.
Contents (A2:2013)	Annex Z	B (normative)	Normative refe corresponding Special nation	erences to intern g European publi nal conditions IELEC code des	cations		P
General		I the —countryll g to the followin		reference docum	nent (IEC 6095	0-1:2005)	Р
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	The Bar
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	Francisco Constant
	2.2.3	Note	2.2.4	Note	2.3.2	Note	6
	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	12
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	C 3.7
	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	30
	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	HE THE
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	a long
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	10
	G.2.1	Note 2	Annex H	Note 2			
General A1:2010)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A1:2010) according to the following list:					P	
	1.5.7.1	Note		6.1.2.1	Note 2		The same of the
15.	6.2.2.1	Note 2	The Real Color	EE.3	Note		1
General A2:2013)	accordin 2.7.1 6.2.2.	g to the followin Note * Note	g list:	ference docume 2.10.3.1 Modification rem	Note 2	-1:2005/A2:2013) ed.	P
l.1.1 A1:2010)	Replace NOTE 3 T multimedi	the text of NOT he requirements	E 3 by the fol of EN 60065 m IEC Guide 11	lowing. hay also be used to	o meet safety re	SC 3	A W.B.W

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Report No.: AGC02561170601ES01 Page 31 of 52

	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 Barrens	P
	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.	CA AGO	
	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.	AGC Road	
A12:2011)	In EN 60950-1:2006/A12:2011	The state	- 37
	Delete the addition of 1.3.Z1 / EN 60950-1:2006	B. Tarton	Р
	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010		
1.5.1	Add the following NOTE:		AR:
(Added info*)	NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC. New Directive 2011/65/11 *	C. B.	N
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.	ACCE	N
1.7.2.1	In EN 60950-1:2006/A12:2011	IF There Can	A. F. Jacob
(A12.2011)	Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments.	SC The NGC	Р
instalion "	Zx Protection against excessive sound pressure from person	nal music players	
	Zx.1 General	By and By a start	. 5
	This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players. A personal music player is a portable equipment for personal	AGC TO A	GCN .
	 use, that: is designed to allow the user to listen to recorded or broadcast sound or video; and primarily uses headphones or earphones that can be worn in or on or around the ears; allows the user to walk around while in use. 	AGC .	

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 32 of 52

Zlause	Requirement – TestNOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause.The requirements in this sub-clause are valid for music or video mode only.	Result – Remark	N
XC T. T. M. M.	 players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment. A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause. The requirements in this sub-clause are valid for music or video mode only. 		N
T. T. B.	intended to be used with personal music players shall comply with the requirements of this sub-clause. The requirements in this sub-clause are valid for music or video mode only.		B.P.
	video mode only.		Ser. 1
2 march		A Martin	- C*
مربق الطريق	 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. 	AGO I	
N.C.	 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 R	QC ^{2.5}
A. Star	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.	AGC	2 2 C
GC *	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.	T. T. Martin	東京林
	 Zx.2 Equipment requirements No safety provision is required for equipment that complies with the following: equipment provided as a package (personal music player with its listening device), where the acoustic output LAeq,T 	SC SC	N
۲۰ آ	 is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, 	AGC	CC T
BA	while playing the fixed "programme simulation noise" as 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.	A BOO	N

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No.16 E

AGC 8 Attestation of Global Compliance

Report No.: AGC02561170601ES01

lause	Requirement – Test	Result – Remark	Verdict
lause		Result – Remark	Verdict
	All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and	S. F. R. B. M.	N
	 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 	C - AGO	
	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	CORTA	-,C*
	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		E TA B
	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.	J. S. Soci	
	 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 REA	- 33
	 e) not exceed the following: 1) equipment provided as a package (player with Its listening device), the acoustic output shall be ≤ 100 dBA 	GC B	
	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	LA BARCES	1. S. C.
	output shall be ≤ 150 mV measured as described in EN 50332- 2, while playing the fixed "programme simulation noise" described in EN 50332-1.	AGU	
	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.	SC R. T. B. SGC	Barris Street
	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	A. C. P. F.	-C ²
	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.	Nov i	THE R
	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	A Care

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Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 34 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
A State	 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: 	Call Hand	N	
	"To prevent possible hearing damage, do not listen at high volume levels for long periods." Figure 1 – Warning label (IEC 60417-6044) Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to	AGC 2. T. H.	GC Rain	
A The P	acknowledge activation of the higher level.			
Attesta	Zx.4 Requirements for listening devices (headphones and e	earpnones)	P	
	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 \ge 75 mV.	C.C.B. T. Statistics		
	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).	LE BAR STR	A MARINE	
	NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.	NOC.	P.O.	
CC STATE	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 \leq 100 dBA.	SC R. T. H. M. M.	N	
	This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.).	C C P T	GC [®]	
C ³	NOTE An example of a wired listening device with digital input is a USB headphone.		LA BA	

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Attestation of Global Compliance

Report No.: AGC02561170601ES01 Page 35 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
	 Zx.4.3 Wireless listening devices In wireless mode: with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and 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. 	Left: 94.38dBA Right: 93.69dBA	GC	
3	NOTE An example of a wireless listening device is a Bluetooth headphone.	3 Martin C	- 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.		P	
	NOTE Test method for wireless equipment provided without listening device should be defined.	- C ²²	G C	
2.7.1	Replace the subclause as follows:	9° -	-111-	
	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	AGC	N	
H. H. H.	 included as parts of the equipment; b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; 	SC B 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.	AGC	GC ^N 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.	A THE ACC	A A	
2.7.2	This subclause has been declared 'void'.	The state	N	
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	- B. J. Burn	O N	

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No.16 E

Attestation of Global Compliance

Report No.: AGC02561170601ES01 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". In Table 3B, replace the first four lines by the following:	C ² CC	T. T. B.
	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)} $1,5$		N
	In the conditions applicable to Table 3B delete the words "in some countries" in condition ^{a)} . In NOTE 1, applicable to Table 3B, delete the second	ACCA	GC
3.2.5.1 (A2:2013)	sentence. NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD	The second second	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	Noo.	N
	Delete the fifth line: conductor sizes for 13 to 16 A		12 3
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		N
C.ª	arising from physical agents (artifical optical radiation). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	Noo	N
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 μ Sv/h (0,1 mR/h) (see NOTE). Account is taken of the background level. Replace the notes as follows:	CALL ACC	N
Nº Nº	NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	C C P	~C 8-2
Bibliography	Additional EN standards.		-

ZA

NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR **CORRESPONDING EUROPEAN PUBLICATIONS**

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No.16 E

Attestation of Global Compliance



Report No.: AGC02561170601ES01 Page 37 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdic
- C	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	不管
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.	C ^{2.2} GC	N
1.2.13.14	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.		N
1.5.7.1	In Finland, Norway and Sweden , 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.	DOC 3	SCN
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	SC S	N
1.5.9.4	In Finland , Norway and Sweden , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		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"		
1.7.2.1	In Sweden: "Apparaten skall anslutas till jordat uttag"	10° . 60	N
(A11:2009)	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.	S GO B TH	
	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 second
	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:	AGC'	A

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Report No.: AGC02561170601ES01 Page 38 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
~	ZB ANNEX (normative) SPECIAL NATIONAL CONE	DITIONS (EN)	A B
The state	"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)."	Cart AGC	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.		E. H. B.
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	NO NO	N
	"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."	C. L. L. B. B.	CP.
	Translation to Swedish:	GC F	
A.F. Car	"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 medfőra risk főr brand. Főr att undvika detta skall vid anslutning av utrustningen till kabel-TV nät alvanisk isolator finnas mellan utrustningen och kabel-TV nätet."	SOC B.T.	A C
1.7.2.1 (A2:2013)	In Denmark , 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 Denmark shall be as follows: In Denmark : "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."	Car AGC	
1.7.5	In Denmark , 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 CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.	AGC	N

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Report No.: AGC02561170601ES01 Page 39 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
< <u>C</u>	ZB ANNEX (normative) SPECIAL NATIONAL CON	IDITIONS (EN)	The Bart
1.7.5 (A2:2013)	In Denmark , 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	AGC	
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		N
2.3.2	In Finland , Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	A BERRY	N N
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	CO F	N
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.	The Part of the Pa	N
2.7.1	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.	AGC B	
2.10.5.13	In Finland , Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	60 - YO	N

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Report No.: AGC02561170601ES01 Page 40 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	15 B
3.2.1.1	In Switzerland , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets: SEV 6532-2.1991 Plug Type 15 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		N
	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	NOC I	
3.2.1.1	In Denmark , supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.		
	If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.	AGO	NO
3.2.1.1	In Spain , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.	Cart Go	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.		B.B.
	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.	ACC	CC ^R
	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	S. B. C	B. Torner

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Report No.: AGC02561170601ES01 Page 41 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
~	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	小型
3.2.1.1	In the United Kingdom , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations.		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.	ACC I	, 60 ×
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.	A BARA	N N
3.2.4	In Switzerland, for requirements see 3.2.1.1 of this annex.	F They can	N
3.2.5.1	In the United Kingdom , a power supply cord with conductor of 1,25 mm2 is allowed for equipment with a rated current over 10 A and up to and including 13 A.	GC P	N
3.3.4	In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is:	L.H.B.A. C.L.S.P.	N
4.3.6	 1,25 mm² to 1,5 mm² nominal cross-sectional area. In the United Kingdom, the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply. 	CR.T. A.C.	N
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.	ACC	N

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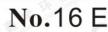
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Report No.: AGC02561170601ES01 Page 42 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CON	DITIONS (EN)	The B
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 ² AGC	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. 	ACC A	
6.1.2.1 (A1:2010)	In Finland , Norway and Sweden , add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either - two layers of thin sheet material, each of which shall pass the electric strength test below, or - one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an		
	insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		环境

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Report No.: AGC02561170601ES01 Page 43 of 52

0	Descriptions and Test	Descrit Descende) (a sali a t
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CONE	DITIONS (EN)	5
	 passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV. 	Call AGC	N
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).	- B.F.	- 0.8
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	NO B	60
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:		F. The Barne
	- 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;	AGC ?	Þ.
	- the additional testing shall be performed on all the test specimens as described in EN 60384-14:	A THE	- 23
	- 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 Barrison A	0
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.	AGC	N N N
7.2	In Finland , Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex.	C ^a CC	N
Frank Constant	The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.		THE R
7.3	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.		N
7.3	In Norway, for installation conditions see EN 60728-11:2005.	- G	N

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Report No.: AGC02561170601ES01 Page 44 of 52

1.5.1	TABLE: list of critical compone	ents			Р
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
Battery	Shenzhen Jin yu zhou Energy Co., Ltd	601230	3.7V, 180mAh Max charging current: 180mA Max discharging current: 180mA	IEC62133	IEC 62133 Report : A001B2017 0523076
Internal wire	Interchangeable	Interchangeable	32AWG, 80°C	UL758	UL AVLV2
Speaker	Interchangeable	Interchangeable	15ohm,5mW	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):	4 M	e.C	- GO		

		ditions)	in normal con	ectrical data (TABLE: el	1.6.2
e (A) Condition/status	I fuse (A)	Fuse #	P (W)	I rated (A)	I (A)	U (V)
Discharge, the with fully charge	- 1	20	0.08	1. 3	0.02	3.7
Charge, the EU fully discharge b			0.60	0.5	0.12	5.0
			0.60	0.5	0.12	5.0

Note(s): --

2.1.1.5c)1) TABLE:	max. V, A, VA test			N
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
	(市)	Const Co	- C [*]	- C -
Note(s):	÷.C	- 60	No. 14	

2.1.1.5c)2)	TABLE: stored energy	THE A	The Barrier	The state	- P.	N
	Capacitance C (µF)		Vo	ltage U (V)	l i	Energy E (J)
- B)	The Base	-02	JC'			
Note(s):	NO			A. The	A B	The state

2.2 TABLE: evaluation of voltage limiting components in SELV circuits					
Component (measured between)		max. voltage (V)	(normal operation)	Voltage Limitin	g
		Vpeak	Vd.c.	Components	
		Barrow	- C. ³ /	S	

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Report No.: AGC02561170601ES01 Page 45 of 52

VA

Meas.

--

Ν

Limit

Fault test perform	ned on voltag	e limiting com	ponents	Voltage me	asured (V) in SI	ELV circuits (V	peak or V d.c.)
A C	B	- Barris	3	2		-	
Note(s):	JC V				The Bank	The the man	The Bear
		ALL THE	12 10	The	Follow	F J GROUP	The second

2.5 TABLE: limited power source measu	rement	- 60	
Aeasured Uoc (V) with all load circuits	lsc (/	A)	
lisconnected:	Meas.	Limit	
	The the	The stand	

Note(s): --

2.10.2	TABLE: Working vo	Itage measurement	No IN	S N
Location		RMS voltage (V)	Peak voltage (V)	Comments
- F Johnson	- # The Contra	C		
Note(s):	C.**			

2.10.3 and 2.10.4	TABLE: clearance	and creepage	distance mea	asurements	20	Z	N
Clearance cl distance dcr	l and creepage at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)
				B	THE THE AND	The second	
		The Course				- C	

2.10.5	TABLE: distance through insulation	measurements	K Bearing	A Tradition	N
Distance t	hrough insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)
Note(s):		A. P.	the second	Francisco -	- 12

4.3.8	TABLE: Batte	eries	- 0	Research .	C.C.		0		Р
The tests of 4 not available	.3.8 are appli	cable only v	when approp	riate batter	y data is		(中川)	1	Р
Is it possible t	o install the b	attery in a r	everse pola	ity position	?	1294	ed connecto attery pack		NG
The Company	Non-rea	chargeable	batteries			Rechargeab	le batteries	3	
	Disch	arging	Uninten-	Cha	rging	Disch	arging	Reverse	e Charging
	Meas. current	Manuf. Specs.	tional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf.S pecs.	Meas. current	Manuf. Specs.

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B. S. In	- C ³	A.B.	120mA	180mA	20mA	180mA		
			130mA	180mA	40mA	180mA		Hand Street
C.	the station of	- 12	~ ~	9	S		9	Verdict
s	S	0	P		No		小根	Р
e battery		The The The	小地	THE CONTRACT OF	No	-	For a Grand	Р
me or expu	lsion of mo	lten metal	The states	C 32	No	GO.	~	Р
th tests of e	quipment a	fter comple	tion of tests	CC.	1		P	Ν
4						. 10 .	- ¹ K	Read Contract
1	s ne battery ame or expu	s ne battery ame or expulsion of mo	s ne battery ame or expulsion of molten metal	130mA s 130mA	130mA 180mA s he battery	130mA 180mA 40mA s 130mA 180mA 40mA ne battery No No ame or expulsion of molten metal No	Image: second	Image: Second condition Image: Second condition Image: Second condition Image: Second condition No Image: Second condition Image: Second condition Image: Second condition No Image: Second condition No

4.3.8 TABLE: Batteries	
Battery category	: Polymer Li-ion Battery
Manufacturer	: Shenzhen Jin yu zhou Energy Co., Ltd.
Type/model	: 601230
Voltage, Capacity	: 3.7V, 180mAh
Circuit protection diagram	
N/A	the the the second second second
MARKINGS AND INSTRUCTIONS (1.7.13)	
Location of replaceable battery	Non-replaceable battery
Language(s)	
Close to the battery	the state of the s
In the servicing instructions	
In the operating instructions	
Note(s):	The second second

4.5	TABLE: maximum temperatures	F. There is the second	cC .	Р
C.3	Test voltage (V):	a):5.0VDC charge mod b): Battery discharge or		
movimum t	tomporature T of part/at:	Т (°	°C)	allowed
Παλιπιμπι ι	temperature T of part/at:	a)	b)	Tmax (°C)
Button	The The Court of The Manual	43.4	42.3	75
PCB near l	U1	46.5	44.9	130
Battery		45.2	42.7	Ref.
Internal wir	re	46.0	42.5	80
Battery Internal wir	re the second		and the second	.,C

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Report No.: AGC02561170601ES01 Page 47 of 52

Internal enclosure		phance	42	2.7	4	2.3	80
External enclosure	B. Jacob	S	42	2.0	4	1.6	75
Ambient			40	0.0	4	l0.0	The Barrie
Temperature T of winding	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation Class
· · · · · · · · · · · · · · · · · · ·	6	Fond Groun	S	6	<u> </u>		

4.5.5	TABLE: ball pressure test of thermoplastic parts	A THE CO	G CN
A start	allowed impression diameter (mm)		
Part		Test temperature(°C)	Impression diameter (mm)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- State	- C
Note(s): -	State State CO	- CO	in the

mm) Flammability class	Evidence
Class	
	-
•	

		ASL SUP	the Martin	All and a second and	and the state	
5.1 TABLE: touch current measurement				Charles Con		Ν
Measured	between:		Measured(mA)	Limit(mA)	Commen	ts/conditions
20		E.			12 miles	- The Conner
Note(s):		The	A PARTY IN	and the second second	John C	Barrow

5.2	TABLE: ele	N				
Test volta	Test voltage applied between:			Test voltage (V)	Breakdown	
		- 4	The the second	The state	C.ª C.	
Note(s): -	- I The Comment	The second	CAL	C ³	No.	

and in					and the second second	-11	200 . color
5.3	5.3 TABLE: fault condition tests					The Barrier - B	P
ambient temperature (°C): 23.			23.6				
The Banking	rated markings of power supply:						
Component no.		Fault	Test voltage (V)	Test time	Fuse no.	Result	
Battery		Output,S-C		15min	- Barris	No explosion, no fire.	

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Report No.: AGC02561170601ES01 Page 48 of 52

U1	Pin 3-4, S-C	5.0	10min	ż.C	Unit shutdown immediately. No hazards.
Speaker	S-C		30min	No.	Speaker not work, no damage and hazards.
Fault: S-C = sho	rt circuit	114	11	_ #	We want the stand comments of the stand comments
Note:	The second	The second	124 manual	C.3	C

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Report No.: AGC02561170601ES01 Page 49 of 52

Attachment A Photos of product



Fig.1 - overview



Fig.2 - overview

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Report No.: AGC02561170601ES01 Page 50 of 52



Fig.3 - overview



Fig.4 – partview

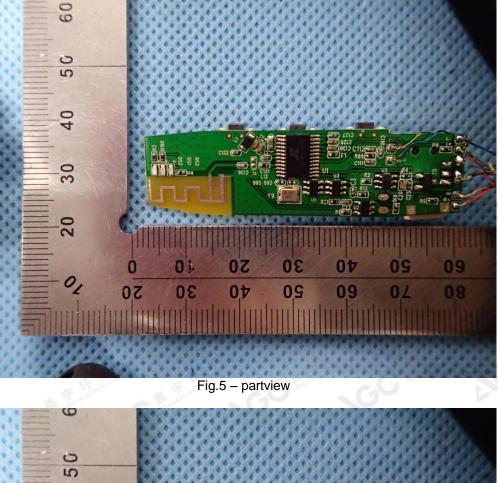
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Report No.: AGC02561170601ES01 Page 51 of 52



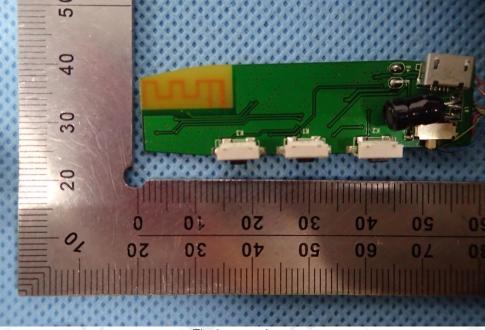


Fig.6 – partview

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Report No.: AGC02561170601ES01 Page 52 of 52

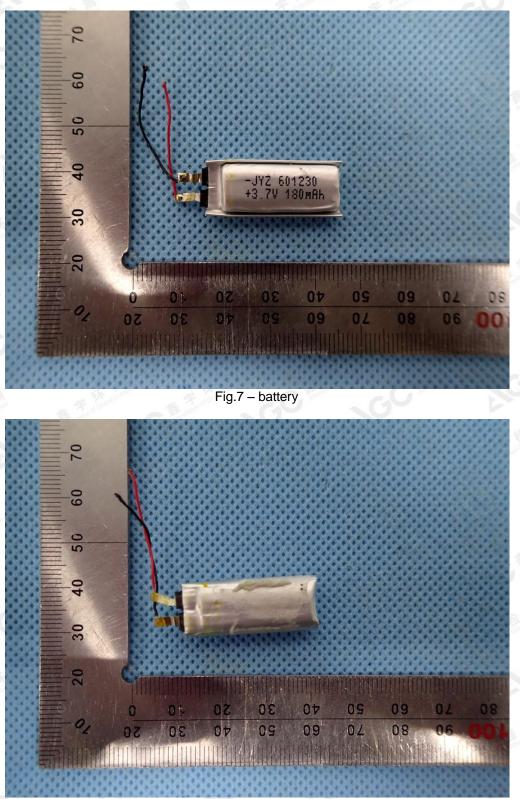


Fig.8 – battery

----- END OF REPORT-----

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