

# **Safety Test Report**

Report No.: AGC10706170901ES01

PRODUCT DESIGNATION	: Bluetooth headset with case	
BRAND NAME	: N/A	
MODEL NAME	: CT 16928, 7816	
CLIENT	JOB AGO AGO	
DATE OF ISSUE	: Oct. 10, 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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	EN 60950-1		
Inform	nation technology equi		
Description Number	Part 1: General require	ements	
Report Reference No	AGC10706170901ES01		
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:	Oct. 10, 2017	GC N	
Contents:	Total 52 pages.		
Testing laboratory	1	- The Contract of The Contract	C
Name:	Attestation of Global Compl	iance (Shenzhen) Co., Ltd.	
Address:		Chaxi Sanwei Technical Industrial F trict, Shenzhen, Guangdong, China	Park,
Testing location	Same as above.	The Barrier of These	Service .
Manufacturer	The Barrens I. The Barrens	C Briter - C Briter	~ CC
Name:			
Address:			
Factory	B.B. G	B. F. B. S.	E F. Sand
Name:			
Address:			
Test specification		THE THE	chance 2
Standard:	EN 60950-1:2006+A11:200	9+A1:2010+A12:2011+A2:2013	
Test procedure	Type test		
Procedure deviation:	N/A		
Non-standard test method:	N/A		
Test Report Form/blank test report	1 B	a the second	10
Test Report Form No	AGC60950A8		
Test Report Form(s) Originator:	AGC		
Master TRF			

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Test item	
Product designation B	3luetooth headset with case
Brand name N	√A
Test model C	
Series model 7	7816
Rating(s): 5	5.0V , 0.5A (Supplied by USB port)
Particulars	
Equipment mobility	
Connection to the mains	
	detachable power supply cord
0	non-detachable power supply cord
Operating condition	
	arated operating/ resting time:
Access location	
	□restricted access location
Over voltage category(OVC)	
Mains supply tolerance(%) or absolute m	
Tested for IT power systems	: □Yes ⊠No
IT testing, phase-phase voltage(V)	
Class of Equipment	
Considered current rating of protective of the building installation (A)	
Pollution degree(PD)	:: DPD 1 DPD 2 DPD3
Protection against ingress of water	: IPX0
Altitude during operation (m)	
Altitude of test laboratory (m)	
Mass of equipment (kg)	: Less 1kg
Test case verdicts	
Test case does not apply to the test obje	ect: N (/A)
Test item does meet the requirement	: P (ass)
Test item does not meet the requirement	t : F (ail)
Testing	
Date of receipt of test item	: Sep. 19, 2017
Date(s) of performance of test	: Sep. 19 – Sep. 27, 2017

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Attachment	The Barnes	The Barrens	C.***	Same.	0	2
Attachment A		<u> </u>	Photos of produc	t		
General remarks This report shall no The test results pre "(See remark #)" re "(See appended tal Throughout this rep	sented in this rep fers to a remark ble)" refers to a ta	port relate only to the relate appended to the relate appended to the relate appended to the related to the rel	ne item tested. port. he report.	val of the testing la	boratory.	A. T. S. B.
Report Revise Re	ecord:	11		THE ALL	the state	- F
Report Version	Revise Time	Issued Date	Valid Version	No	es	~C ***
V1.0	1	Oct. 10, 2017	Valid	Initial r	elease	0
The second		60				AT THE

#### **General product information**

The product supplied by build-in polymer battery and charged from Micro-B USB port and considered 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 CT 16928 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:

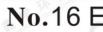
1) The CE marking and WEEE symbol (if any) should be at least 5mm and 7mm respectively in height.

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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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdic	
		The Theorem	F Ward	
1	GENERAL		Р	
1 B				
1.5	Components		Р	
1.5.1	General	the second second	Р	
الله د کار	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)	<b>СР</b>	
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.	Ν	
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	A Barris C	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 F F F 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	CO P	N	
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N	

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1.6	Power interface	1 B B B B	Р
1.6.1	AC power distribution systems	No direct mains connection.	N
1.6.2	Input current	(See appended table 1.6.2)	Р
1.6.3	Voltage limit of hand-held equipment		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)	
15	Symbol for nature of supply, for d.c. only	= (no show)	
F Johnston	Rated frequency or rated frequency range (Hz):	- GU	
and and	Rated current (mA or A):	0.5A (no show)	
1.7.1.2	Identification markings	The Real Providence	P
× 44	Manufacturer's name or trademark or identification mark:	NINGBO CSTAR IMP&EXP CO., LTD	
- F Steen Car	Type/model or type reference:	See page 3	
Sec.	Symbol for Class II equipment only:	Class III equipment	
	Other marking and symbols:	See marking plate.	
1.7.1.3	Use of graphical symbols	GOT 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	- GO	Ν
1.7.2.4	IT power distribution systems		N
1.7.2.5	Operator access with a tool		N
1.7.2.6	Ozone	a the Cal	N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	<b>N</b>
1.7.4	Supply voltage adjustment:	No such devices used	Ń
	Methods and means of adjustment; reference to installation instructions	Contraction of Contraction	N
1.7.5	Power outlets on the equipment:	a do a la	Ν
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):		N
1.7.7	Wiring terminals	- Fallen	<b>N</b>

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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	C C	N
1.7.7.3	Terminals for d.c. mains supply conductors		Ν
1.7.8	Controls and indicators	A A	Р
1.7.8.1	Identification, location and marking:	It is obviously unnecessary.	Ν
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		Ň
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.	N
1.7.11	Durability	The marking withstands required tests.	P
1.7.12	Removable parts	No such parts.	Ν
1.7.13	Replaceable batteries	Non-replaceable battery	N
	Language(s)	The state of the s	
1.7.14	Equipment for restricted access locations:	-C <sup>3</sup> / -C <sup>3</sup> /	N

2	PROTECTION FROM HAZARDS		Pie
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
	Test by inspection	the state of the s	·
N.	Test with test finger(Figure 2A)	2 C.	
12	Test with test pin (Figure 2B)		
C.3	Test with test probe (Figure 2C):		
2.1.1.2	Battery compartments	A A A A A A A A A A A A A A A A A A A	N
2.1.1.3	Access to ELV wiring	C.C.	Ν
B	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	GC AU	
2.1.1.4	Access to hazardous voltage circuit wiring		N
2.1.1.5	Energy hazards:	No energy hazard in operator access area.	CP

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	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)	COM COM			
2.1.1.8	Energy hazards – d.c. mains supply	Not directly connect to mains supply	N		
auton of G	a)Capacitor connected to the d.c. mains supply		N		
- 74	b)Internal battery connected to the d.c. mains supply:	C. S. M. Barris C. C. Barris	C <sup>N</sup>		
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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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.	C 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 Street of The Street	N

2.3	TNV circuits	S NO	Ν
2.3.1	Limits	No TNV circuits.	N
GU.	Type of TNV circuits:	A BAR	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 SA	Insulation employed:	C <sup>B</sup>	N
2.3.5	Test for operating voltages generated externally		N

2.4

Limited current circuits

Ν

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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	18-3 - 8-3 - C.	N		
NR.	Frequency (Hz):		N		
F. S. Canadom	Measured current (mA):		N		
entre la constante de la consta	Measured voltage (V):	The second second	N		
101-	Measured capacitance (nF or µF):	The State Carter	N		
2.4.3	Connection of limited current circuits to other circuits	De Nou A	N		

2.5	Limited power sources		N
小唐	a)Inherently limited output	02	N
Fr of Glass	b)Impedance limited output		N
.0	c)Regulating network limited output under normal operating and single fault condition	THE REAL	N
	d)Overcurrent protective device limited output	2 C V	N
中环境	Max. output voltage (V), max. output current (A), max. apparent power (VA):	AGC IN	
and the second	Current rating of overcurrent protective device (A)	The the second second	N
	Use of integrated circuit (IC) current limited	B. Store Barris	N

2.6	Provisions for earthing and bonding		Ν
2.6.1	Protective earthing	Class III equipment.	N
2.6.2	Functional earthing		N
5 12	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		N
- C *	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 S C C C	N
2.6.3.4	Resistance of earthing conductors and their terminations, resistance( $\Omega$ ), voltage drop(V),test current (A), duration(min):	A BAR BAR	N
2.6.3.5	Colour of insulation:	57 AV 50	N

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Clause	Requirement – Test	Result – Remark	Verdict		
2.6.4	Terminals	the state	Ν		
2.6.4.1	General	The second second second	N		
2.6.4.2	Protective earthing and bonding terminals		N		
Frank Contract	Rated current (A), type and nominal thread diameter (mm):	type and nominal thread			
2.6.4.3					
2.6.5	Integrity of protective earthing		N		
2.6.5.1	Interconnection of equipment		Ν		
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N		
2.6.5.3	Disconnection of protective earth	Children Co	N		
2.6.5.4	Parts that can be removed by an operator	CO P	Ν		
2.6.5.5	Parts removed during servicing		Ν		
2.6.5.6	Corrosion resistance	the Frank Contract of the Contraction	N		
2.6.5.7	Screws for protective bonding	- G	N		
2.6.5.8	Reliance on telecommunication network or cable distribution system	AO	N		

2.7	Overcurrent and earth fault protection in primary circuits		
2.7.1	Basic requirements	No primary circuits.	N
~C <sup>3</sup>	Instructions when protection relies on building installation		N
2.7.2	Faults not covered in 5.3.7		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 second	Ν
2.7.6	Warning to service personnel:	The state of the s	Ν

2.8	Safety interlocks	GUE	N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	a faith a faith a Ci	N
2.8.3	Inadvertent reactivation		N
2.8.4	Fail-safe operation		N
	Protection against extreme hazard		N
2.8.5	Moving parts	- Friday	N

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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		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		P
2.9.1	Properties of insulating materials	the state of the	Р
2.9.2	Humidity conditioning	C <sup>1</sup>	N
Franciscon .	Humidity (%),temperature (°C):	CO F	
2.9.3	Grade of insulation	Functional insulation.	P
2.9.4	Separation from hazardous voltages	T. T. Same	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
Contactor .	Frequency		Ν
- C. <sup>3</sup>	Pollution degrees		N
0	Reduced values for functional insulation	K B	N
15	Intervening unconnected conductive parts	China CO	N
# They com	Insulation with varying dimensions		N
station .	Special separation requirements	The second se	N
1	Insulation in circuits generating starting pulses	The Barrier - Francisco	N
2.10.2	Determination of working voltage		N
2.10.3	Clearances		N
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
100	a)AC mains supply	C2	N
12 manual	b)Earthed d.c. mains supplies	CO P	N
	c)Unearthed d.c. main supplies		N
N	d)Battery operation:	The Film	N

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Clause	Requirement – Test	Result – Remark	Verdict
2.10.3.3	Clearances in primary circuits	The second second	N
2.10.3.4	Clearances in secondary circuits	The state of the s	N
2.10.3.5	Clearances in circuits having starting pulses		N
2.10.3.6	Transients from a.c. mains supply		N
2.10.3.7	Transients from d.c. mains supply	THE THE	N
2.10.3.8	Transients from telecommunication networks and cable distribution systems	C. S. E. Barris C. C. S. S. C.	N
2.10.3.9	Measurement of transient voltage levels		N
- 87	a)Transients from a mains supply		Ň
	For a.c. mains supply	E TE	N
10.1	For d.c. mains supply	CO'	N
Falanton	b)Transients from		N
2.10.4	Creepage distances		N
2.10.4.1	General	The Barrier The The Comment	N
2.10.4.2	Material group and comparative tracking index	5 C	V N
人也	CTI tests		N
2.10.4.3	Minimum creepage distances		N
2.10.5	Solid insulation	The Frank of State	N
2.10.5.1	General	A THE CARLES	
2.10.5.2	Distances through insulation	C N	N
2.10.5.3	Insulation compound as solid insulation		N 📰
2.10.5.4	Semiconductor device	the state of the s	N
2.10.5.5	Cemented joints	C <sup>a</sup>	N
2.10.5.6	Thin sheet material - General		N
2.10.5.7	Separable thin sheet material		N
	Number or layers(pcs)		N
2.10.5.8	Non-separable thin sheet material	- 3 Mar - C Mar	N
2.10.5.9	Thin sheet material – standard test procedure		N
C.8/	Electric strength test		N
2.10.5.10	Thin sheet material – alternative test procedure	A A A A	N
	Electric strength test	a the co	N
2.10.5.11	Insulation in wound components		N
2.10.5.12	Wire in wound components		N
10	Working voltage	The second second	N
	a)Basic insulation not under stress:	- 8	N

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	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
<u></u>	b)Basic, supplementary, reinforced insulation:	A REAL BRANCH	N	
	c)Compliance with Annex U:	5 Television 5 Television - 5	Ν	
THE T	Two wires in contact inside wound component; angle between 45° and 90°	CON NOT	N	
2.10.5.13	Wire with solvent-based enamel in wound components	A B E B	N	
-01	Electric strength test	- The C 3	N	
and and a	Rountine test		N	
2.10.5.14	Additional insulation in wound components		N	
G	Working voltage		N	
	-basic insulation not under stress	Charles - Charles	N	
TA	-Supplementary, reinforced insulation:		N	
2.10.6	Construction of printed boards		N	
2.10.6.1	Uncoated printed boards	BE AN	Ν	
2.10.6.2	Coated printed boards	- F. M B. F C.	N	
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	n between conductors on the same inner		
2.10.6.4	Insulation between conductors on different layers of a printed board	T. B. B. B.	N	
	Distance through insulation	C <sup>3</sup>	N	
- The second	Number of insulation layers(pcs)	C N	Ν	
2.10.7	Component external terminations		N	
2.10.8	Tests on coated printed boards and coated components	A.B.B. S.T.A.B.	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 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 STATE CO	N	
2.10.12	Enclosed and sealed parts		N	

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

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	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	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		N
3.1.6	Screws for electrical contact pressure		N
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		N
3.1.10	Sleeving on wiring	The Theorem and The state	N

3.2	Connection to a mains supply	N	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 state	Ν
3.2.1.2	Connection to a d.c. mains supply	CC CC	N
3.2.2	Multiple supply connections		Ν
3.2.3	Permanently connected equipment		N
0	Number of conductors, diameter (mm) of cable and conduits	S.B. C.B. C.G.	
3.2.4	Appliance inlets		Ν
3.2.5	Power supply cords	1	N
3.2.5.1	AC power supply cords	E Barrow Barrow	N
	Туре	C.C.	
-	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG:		
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief	C.C.	Ν
R TH	Mass of equipment (kg), pull (N)		
Com	Longitudinal displacement (mm)		
3.2.7	Protection against mechanical damage	THE THE	Ν
3.2.8	Cord guards	T. T. and T. T. S. T. A.	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
~0	D (mm); test mass (g):	A BE AB	
	Radius of curvature of cord (mm):	5 Transformer 5 Transformer 5	
3.2.9	Supply wiring space		Ν

3.3	Wiring terminals for connection of external cond	luctors	N
3.3.1	Wiring terminals	The Benning - State State	N
3.3.2	Connection of non-detachable power supply cords	A DO	N
3.3.3	Screw terminals		Ň
3.3.4	Conductor sizes to be connected	10 A 10 - 10 - 10 - 10 - 10 - 10 - 10 -	N
环境	Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> ):	COM NOCION	
3.3.5	Wiring terminal sizes		Ν
NO	Rated current (A), type and nominal thread diameter (mm):	T. H. B. M F. T. Bullion	
3.3.6	Wiring terminals design	C S	N
3.3.7	Grouping of wiring terminals	10-	N
3.3.8	Stranded wire	5 P	N

3.4	Disconnection from the mains supply	C The C	N
3.4.1	General requirement	Class III equipment	N
3.4.2	Disconnect devices		N
3.4.3	Permanently connected equipment	K Barris	N
3.4.4	Parts which remain energized	a C Prese	N
3.4.5	Switches in flexible cords	N	N
3.4.6	Single-phase equipment and d.c. equipment		N
3.4.7	Three-phase equipment	The Barrie	N
3.4.8	Switches as disconnect devices	- 1 × 1	N
3.4.9	Plugs as disconnect devices		N
3.4.10	Interconnected equipment		N N
3.4.11	Multiple power sources	人也 不是	N

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

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
3.5.4	Data ports for additional equipment		N
		The Second Second	Franci Charles
4	PHYSICAL REQUIREMENTS		Р
4.1	Stability		Ν
nation of Gr	Angle of 10°	The second second	N
	Test: force (N):	The Barrier and Barrier	N
A THE	A B A B A B A B A B A B A B A B A B A B	a go so	5
4.2	Mechanical strength		Р
4.2.1	General	See below	∲ P
<u> </u>	Rack-mounted equipment.	the state of the	N
4.2.2	Steady force test, 10 N		N
4.2.3	Steady force test, 30 N	CO 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	5 3 m - 3 3 m - C	<b>N</b>
· 10	Fall test		Ν
F. Same	Swing test		N 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
GO	Picture tube separately certified:	CALL IN THE	Ň
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. B. F. Marco	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.	Р
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	Ν
~	Torque:	THE THE	Ν

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
N	Compliance with the relevant mains plug standard	The Hard and The Hard	N
4.3.7	Heating elements in earthed equipment	No heating elements.	N
4.3.8	Batteries		Р
Francisco Constant	-Overcharging of a rechargeable battery	(see appended table 4.3.8)	P
- 01	-Unintentional charging of a non-rechargeable battery	Non-rechargeable battery	N
and the second	-Reverse charging of a rechargeable battery	Battery pack polarity cannot be reversed.	N
- 57	-Excessive discharging rate for any battery	(see appended table 4.3.8)	P
4.3.9	Oil and grease	No Oil and grease.	N
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N
4.3.11	Containers for liquids or gases	No containers for liquids or gases	Ν
4.3.12	Flammable liquids:	The equipment does not contain flammable liquid.	N
	Quantity of liquid (I):	5 3 - B 3 - C	N
。他	Flash point (°C):	GU AN	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
A.	Measured radiation (pA/kg):	GUT NO	
6	Measured high-voltage (kV):		
C.C.	Measured focus voltage (kV):	The second second	
	CRT markings	And Cal	
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	N
The a case	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.	ЭР
4.3.13.5.1	Lasers (including laser diodes)		N
3	Laser class	A B A B A B A B A B A B A B A B A B A B	
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	A BER AND	Ν
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	A REP AR	N
	Household and home/office document/media shredders	Barning C. Barning C.	N
4.4.3	Protection in restricted access locations		N
4.4.4	Protection in service access areas	A A	N
4.4.5	Protection against moving fan blades	the man the standard	N
4.4.5.1	General	The state of the s	N
24 Augusta	Not considered to cause pain or injury. a):		N
- 27	Is considered to cause pain, not injury. b):		N
	Considered to cause injury. c):	E The State	N
4.4.5.2	Protection for users		N
F Johnston	Use of symbol or warning:		Ν
4.4.5.3	Protection for service persons		Ν
NO.	Use of symbol or warning:	The Barrier Barrier	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 <sup>B</sup>	
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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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
4.6.5	Adhesives for constructional purposes		N
	Conditioning temperature (°C), time (weeks):	The France of France	

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 TH	Method 1, selection and application of components wiring and materials	Method 1 used	P
- 23	Method 2, application of all of simulated fault condition tests		N
4.7.2	Conditions for a fire enclosure	E AB	P
4.7.2.1	Parts requiring a fire enclosure		P
4.7.2.2	Parts not requiring a fire enclosure	GU AN	N
4.7.3	Materials		Р
4.7.3.1	General	The Barrier of The Contract	P
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1	Р
4.7.3.3	Materials for components and other parts outside fire enclosures	AGO F	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 SIMULATE	D ABNORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current	- G - GO	N
5.1.1	General		N
5.1.2	Equipment under test (EUT)	A THE	N
5.1.2.1	Single connection to an a.c. mains supply	The Barrier of Street	N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	Carlos Nocional N	<b>S</b> N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		Ň
5.1.3	Test circuit	Children Children	N
5.1.4	Application of measuring instrument		Ν
5.1.5	Test procedure	No.	N
5.1.6	Test measurements	A BAR IN BAR	N
	Test voltage (V):	- Fallen	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
-0	Measured touch current (mA):	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
	Max. allowed touch current (mA):	The Second State of Second State	N
. 1	Measured protective conductor current (mA):		N
The The state	Max. allowed protective conductor current (mA) .:		N
5.1.7	Equipment with touch current exceeding 3.5 mA :	The second second	N
5.1.7.1	General	The Barrier and States	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		N
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system	CC - NOC	NC
uns aller	Test voltage (V)		N
S	Measured touch current (mA):	TA BASE TA BASE	N
	Max. allowed touch current (mA)	5. C. S.	N
5.1.8.2	Summation of touch currents from telecommunication networks	AGO LA	N
and the second	a)EUT with earthed telecommunication ports:	TA BE	N
10-	b)EUT whose telecommunication ports have no reference to protective earth	- Charles - C.Charles	NG

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	A A	P
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	-C
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.	P
5.3.8	Unattended equipment	The Constant	N

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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.	Р	
5.3.9.2	After the tests	No fire, no danger.	Р	

6	CONNECTION TO TELECOMMUNICATION NETWORKS	Burnet - Barnet	N
6.1	Protection of telecommunication network service person equipment connected to the network, from hazards in the		N
6.1.1	Protection from hazardous voltages		Ň
6.1.2	Separation of the telecommunication network from earth		N
6.1.2.1	Requirements	Store CO	NG
F. Samo	Test voltage (V):	E.C.	
ale same	Current in the test circuit (mA):		
6.1.2.2	Exclusions	Burning the They Comment	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 state of the s	Ν
6.2.2.1	Impulse test	C <sup>3</sup>	N
6.2.2.2	Steady-state test		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 STATE CO	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 BAR	N

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	EN	60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
7.4.1	General	the state	N
7.4.2	Voltage surge test	The stand Calment of the Stand Calment	N
7.4.3	Impulse test	CO CO C	N

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	EN 60950-7	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:			
Frank Ground	Wall thickness (mm):			
A.1.2	Conditioning of samples; temperature (°C)::	A B A A A A A A A A A A A A A A A A A A	Ν	
A.1.3	Mounting of samples	- Filmer - C	N	
A.1.4	Test flame (see IEC 60695-11-3)		N	
- 87	Flame A, B, C or D			
A.1.5	Test procedure	BE ABE	N	
A.1.6	Compliance criteria		Ν	
F Journa com	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 ed exceeding 18 kg, and for material and component 4.7.3.2 and 4.7.3.4)		N	
A.2.1	Samples, material:	18 1		
1	Wall thickness (mm):	The state of the s		
A.2.2	Conditioning of samples	- City Co	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 Barrier The Street		
A.2.5	Test procedure	- CP	N	
A.2.6	Compliance criteria		Ν	
station .	Sample 1 burning time (s):			
2	Sample 2 burning time (s):	5 B 5 5 5		
	Sample 3 burning time (s):			
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8		N	
30	Sample 1 burning time (s):	18 A 8 4		
	Sample 2 burning time (s):	And State CO		
KB JUN	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	A State of the state	N	

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Clause	Requirement – Test	Result – Remark	Verdict
A.3.3	Compliance criterion	A BAR ABA	Ν
		The Second Se	Franci Coole
B	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	CONDITIONS (see 4.7.2.2 and	N
B.1	General requirements		N
	Position:	The state of the s	
-14	Manufacturer:	G Start C	
- Angliana	Туре:		
-	Rated values:		
B.2	Test conditions	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
B.3	Maximum temperatures		Ν
B.4	Running overload test		N
B.5	Locked-rotor overload test		Ν
N.	Test duration (days):	The Barrier Barrier	
	Electric strength test: test voltage (V):	5.3 C 3.2 \	
B.6	Running overload test for d.c. motors in secondary circuits	NGO IN	N
B.6.1	General	The state of the s	N
B.6.2	Test procedure	- 3.3 3.2	Ν
B.6.3	Alternative test procedure	GO CO	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 state	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 state of the s	N
B.9	Test for three-phase motors		N
B.10	Test for series motors	C* \0 >	() N
- 18	Operating voltage (V):		

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		
AT THE	Position:	No transformers	2
at Company	Manufacturer:	No.	
	Туре::		3
	Rated values:	The second second	

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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
~	Method of protection:	18		
C.1	Overload test	The transformation of the advantage of the	N	
C.2	Insulation		N	
The	Protection from displacement of windings::	No. No.	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, TEMPE	RATURE RISE OF	A WINDING (se	ee 1.4.13)	- B 2.	Ν	C
16 B	2 × 5 2	The Bandant	- F. Jose	C	CO.	N	
F	ANNEX F, MEASU	REMENT OF CLE	ARANCES AND	CREEPAGE DISTANC	ES	N	

		E METHOD FOR DET		CLEARANCES	N
0	N		The Barnes	The state	- 3
(see 2.	.10)			the second	

G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CL	EARANCES N
G.1 💦	Clearances	N
G.1.1	General	N
G.1.2	Summary of the procedure for determining minimum clearances	N
G.2	Determination of mains transient voltage (V):	N
G.2.1	AC mains supply	N
G.2.2	DC mains supply	N
G.2.3	Unearthed DC mains supply	N
G.2.4	Battery operation:	N N
G.3	Determination of telecommunication network transient voltage (V)	N
G.4	Determination of required withstand voltage (V) . :	N
G.4.1	Mains transients and internal repetitive peaks:	G N
G.4.2	Transients from telecommunication networks:	N
G.4.3	Combination of transients	N
G.4.4	Transients from cable distribution systems	N
G.5	Measurement of transient levels (V):	S N
Comparent.	a) Transients from a mains supply	N
	For an a.c. mains supply	N
20	For a d.c. mains supply	N
	b) Transients from a telecommunication network	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
G.6	Determination of minimum clearances:	A B B	N
		The Second of The Second of The	Francis
н	ANNEX H, IONIZING RADIATION (see 4.3.13)	G <sup>r</sup> a G <sup>r</sup> a G	N
The	CP CP N	No. 20	
Junde	ANNEX J, TABLE OF ELECTROCHEMICAL PO	TENTIALS (see 2.6.5.6)	N
	Metal used:	The Barrier Barrow	
R. THE	A B B S I A B A B A B A B A B A B A B A B A B A		G
к	ANNEX K, THERMAL CONTROLS (see 1.5.3 an	d 5.3.7)	N 🔬
K.1	Making and breaking capacity		St N
K.2	Thermostat reliability; operating voltage (V):	A BALL AND A	N
K.3	Thermostat endurance test; operating voltage (V):	GC* NO	N
K.4	Temperature limiter endurance; operating voltage (V):		N
K.5	Thermal cut-out reliability	The second second second	N
K.6	Stability of operation		Ν

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	C C	N
L.2	Adding machines and cash registers		Ν
L.3	Erasers		N B
L.4	Pencil sharpeners	The the state of t	N
L.5	Duplicators and copy machines	S. C. C. C. C. C. C.	N
L.6	Motor-operated files		Ν
L.7	Other business equipment		P

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	THE REPORT	N
M.3.1	Ringing signal	C BAR SOU	N
M.3.1.1	Frequency (Hz):	NO P	
M.3.1.2	Voltage (V):		
M.3.1.3	Cadence; time (s), voltage (V):	The There are the the second	
M.3.1.4	Single fault current (mA):		

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Ρ

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
M.3.2	Tripping device and monitoring voltage:	1 B	Ν	
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	Barris C.B. States of C	N	
M.3.2.2	Tripping device		Ν	
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 and clause G.5)		GN
N.1	ITU-T impulse test generators	VOL P	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
Υ.	-Preferred climatic categories:	A constant and the second	N
	-Maximum continuous voltage:		N
F F	-Combination pulse current:		🦔 N
Bandar	Body of the VDR Test according to IEC 60695- 11-5	The state of the s	N
E The	Body of the VDR. Flammability class of material (min V-1):	China Com	N

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)	NOC NO	N
R.2	Reduced clearances (see 2.10.3)		N

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		
S.1	Test equipment		N
S.2	Test procedure		N
S.3	Examples of waveforms during impulse testing	The The State	N

Tana	ANNEX T, GUIDANCE ON PROTECTION A	GAINST INGRE	SS OF WAT	ER	Ν
of the second	(see 1.1.2)			Ar	

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		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
U SC	ANNEX U, INSULATED WINDING INSULATION (see 2.10.5.4)	G 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	E.	- F Man	Ν

W	ANNEX W, SUMMATION OF TOUCH CURRENTS			
W.1	Touch current from electronic circuits		- 01	Ν
W.1.2	Earthed circuits	The The	E province	Ν
W.2	Interconnection of several equipments	and the second second	. C.O.	Ν
W.2.1	Isolation	CO"		Ν
W.2.2	Common return, isolated from earth		and the second	Ν
W.2.3	Common return, connected to protective earth	The Barrie	The Bernard	Ν

X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)		N
X.1	Determination of maximum input current	The Barrier	Ν
X.2	Overload test procedure	- 3.3	Ν

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

Z	ANNEX Z, OVERVOLTAGE CATEGORIES(see2.10.3.2 and Clause G.2)				N	
	The the mainte	TE TANK Comment	The second beau	C.B.	S	S

 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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Test program 1.....

AA

CC.2

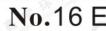


	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
CC.3	Test program 2	A BE AB	Ν		
CC.4	Test program 3:	The Second State of The Second State	Ν		
CC.5	Compliance:		Ν		

DD	ANNEX DD, requirements for the mounting means of rack-mounted equipment		Ν
DD.1	General	The the second s	Ν
DD.2	Mechanical strength test, variable N:	- CO	Ν
DD.3	Mechanical strength test, 250N, including end stops		Ν
DD.4	Compliance:	1 1 1 - S	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:	5. C. S.	Ν
THE TANK	Information of user instructions, maintenance and/or servicing instructions:	AGO IN	Ν
EE.3	Compliance:	The Barrier B.	Ν
EE.4	Disconnection of power to hazardous moving parts	CG <sup>B</sup>	Ν
Callen	Use of markings or symbols:		Ν
EE.5	Protection against hazardous moving parts		Ν
0	Test with test finger (figure 2A):	The Common of Francisco	Ν
sta	Test with wedge probe (figure EE1 and EE2):	- Grand	Ν

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			E	EN 60950-1			
Clause	Requirem	nent – Test			Res	ult – Remark	Verdict
EN 6	60950-1:20	006/A11:2009/A	1:2010/A12:20	11/A2:2013 – 0	CENELEC CO	MMON MODIFICAT	TIONS
		subclauses, no 0-1 and it's ame			are additional t	o those in	F. Car
Contents (A2:2013)	Annex ZA Annex ZB		Normative refer corresponding I Special nationa	European publi al conditions	cations		P
General		the —countryll to the following		ference docum	ent (IEC 6095	0-1:2005)	Р
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	The B
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	Franciscon Co
	2.2.3	Note	2.2.4	Note	2.3.2	Note	C
	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	
	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	22
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	C32
	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	the The
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	a Contra
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	<u></u>
	G.2.1	Note 2	Annex H	Note 2			
General A1:2010)	according 1.5.7.1	to the following Note		6.1.2.1	Note 2	1:2005/A1:2010)	P
Conorol	6.2.2.1	Note 2	atoo in the rofe	EE.3	Note	4.0005/40.0040)	
General A2:2013)	according 2.7.1 6.2.2.	to the following Note * Note secretary: Text	g list:	2.10.3.1	Note 2	1:2005/A2:2013) d.	P
l.1.1 A1:2010)	Replace t NOTE 3 TI multimedia	the text of NOT	E 3 by the follo of EN 60065 ma IEC Guide 112,	wing. y also be used to	o meet safety rec	6 3	1 H M

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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	T. B. B. B.	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.	C <sup>2</sup> CC			
	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	AGC B	CC B		
	level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.	NO			
(A12:2011)	In EN 60950-1:2006/A12:2011	The state of the s	C.3.2		
	Delete the addition of 1.3.Z1 / EN 60950-1:2006	C.B.	Р		
	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	gu p			
1.5.1 (Added info*)	Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC. New Directive 2011/65/11 *	C. B. B. 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.	A CONTRACTOR	N		
1.7.2.1 (A12.2011)	In EN 60950-1:2006/A12:2011 Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments.	SC The SCO	Р		
	Zx Protection against excessive sound pressure from person	nal music players	P		
	<b>Zx.1 General</b> 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.	AGC R.	GCN		
	<ul> <li>A personal music player is a portable equipment for personal use, that:</li> <li>is designed to allow the user to listen to recorded or broadcast sound or video; and</li> <li>primarily uses headphones or earphones that can be worn in or on or around the ears;</li> <li>allows the user to walk around while in use.</li> </ul>	A F. M. M.			

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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
Þ.	NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.	A. F. H. B. A.	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.	C AGO		
	The requirements in this sub-clause are valid for music or video mode only.	C.B.F.	-C*	
	<ul> <li>The requirements do not apply:</li> <li>while the personal music player is connected to an external amplifier; or</li> <li>while the headphones or earphones are not used.</li> <li>NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player.</li> </ul>	AGO I		
	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.	GC B T A B B	QC <sup>2,2</sup>	
	<ul> <li>analogue personal music players (personal music players without any kind of digital processing of the sound signal) that are brought to the market before the end of 2015.</li> <li>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.</li> </ul>	L. S. C.	A.	
	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.	T. T. B. B.	手手を	
	<ul> <li>Zx.2 Equipment requirements</li> <li>No safety provision is required for equipment that complies with the following: <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> <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 described in EN 50332-1.</li> </ul> </li> <li>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.</li> </ul>	AGC BART		

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C	Attestation of Global Compliance	Report No.: AGC1070	Page 33 of 5
	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	<ul> <li>All other equipment shall:</li> <li>a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and</li> <li>b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and</li> <li>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 acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time; and</li> </ul>	CART AGO	

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.

NOTE 2 Examples of means include visual or audible signals.

have a warning as specified in Zx.3; and

e) not exceed the following:

C 鑫 宇 环

1) equipment provided as a package (player with Its listening device), the acoustic output shall be  $\leq$  100 dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and

2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be ≤ 150 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1.

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 LAeg, 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.

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.

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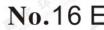
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EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict		
A HA	<ul> <li>Zx.3 Warning</li> <li>The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following:</li> <li>the symbol of Figure 1 with a minimum height of 5 mm; and</li> <li>the following wording, or similar:</li> </ul>	Call ACC	N		
	"To prevent possible hearing damage, do not listen at high volume levels for long periods." Figure 1 – Warning label (IEC 60417-6044)	NCC	GCE		
a the	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.	Sec.	NG		
	Zx.4 Requirements for listening devices (headphones and e	earphones)	Р		
A HA	<ul> <li>Zx.4.1 Wired listening devices with analogue input</li> <li>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.</li> <li>This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in</li> </ul>	GC R THE			
	volume level control). NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.	GC <sup>2</sup>	NG		
CC'	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.	SC R. T. M. B. 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.).	SC R TH	GC		
C.32	NOTE An example of a wired listening device with digital input is a USB headphone.		1 B		

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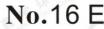


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EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict		
	<ul> <li>Zx.4.3 Wireless listening devices</li> <li>In wireless mode:</li> <li>with any playing and transmitting device playing the fixed programme simulation noise described in EN 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>	Left: 96.42dBA. Right: 96.38dBA.	GC SC		
<b>9</b>	NOTE An example of a wireless listening device is a Bluetooth headphone.	3 1 C	A C		
	<b>Zx.5 Measurement methods</b> 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		
Part -	NOTE Test method for wireless equipment provided without listening device should be defined.	-Call	G		
2.7.1	Replace the subclause as follows: Basic requirements		NE TH		
	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):	GC	N		
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;		中林楼		
F. H. B.	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 BAC			
	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	G 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.	AGC	A		
2.7.2	This subclause has been declared 'void'.	1	N		
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	The second	C 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". In Table 3B, replace the first four lines by the following:	C & T & C	T. T. Marken
	Up to and including 6   $0,75^{a}$           Over 6 up to and including 10   (0,75) <sup>b)</sup> $1,0$           Over 10 up to and including 16   (1,0) <sup>c)</sup> $1,5$		N
	In the conditions applicable to Table 3B delete the words "in some countries" in condition <sup>a)</sup> . In NOTE 1, applicable to Table 3B, delete the second	NOC B	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 Barrier	N
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:	Noc.	N
	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		4 V
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	GC <sup>2</sup>	N
	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).	CO BERT	200
- C	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: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 $\mu$ Sv/h (0,1 mR/h) (see NOTE). Account is taken of the background level. Replace the notes as follows:	Cart SGC	N
N	NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	Barrie Constant	-C*3
Bibliography	Additional EN standards.		

ZA

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

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	EN 60950-1	-	
Clause	Requirement – Test	Result – Remark	Verdict
~0	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	小學
1.2.4.1	In <b>Denmark</b> , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.	C L GC	N
.2.13.14	In <b>Norway</b> and <b>Sweden</b> , for requirements see 1.7.2.1 and 7.3 of this annex.		N
1.5.7.1	In <b>Finland, Norway</b> and <b>Sweden</b> , resisters bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resister is used, the resister must withstand the resister test in 1.5.7.2.	ACCRIT	GCN
1.5.8	In <b>Norway</b> , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	GC &	N
1.5.9.4	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		N
1.7.2.1	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. 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"		
.7.2.1	In Sweden: "Apparaten skall anslutas till jordat uttag"	10° . 60	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.	GCR	SC <sup>®</sup>
	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.		T. H. B.
	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:	A GO	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
_	ZB ANNEX (normative) SPECIAL NATIONAL CONE	DITIONS (EN)	5
	"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."		N
	NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		E. H. B.
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	South South	No
	"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."	A CRIER R	OC <sup>®®</sup>
	Translation to Swedish:		
A.F.	"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."	L. H. M. B. C. R. T. H.	A.C.
1.7.2.1 (A2:2013)	<ul> <li>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.</li> <li>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."</li> </ul>		
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.	ACC	N

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# No.16 E

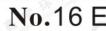
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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CON	DITIONS (EN)	The Bar
1.7.5 (A2:2013)	In <b>Denmark</b> , socket-outlets for providing power to other equipment shall be in accordance with the 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		
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.		Ν
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.	C B. F. B.	<b>N</b>
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.	GU P	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.	15 B B	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.	AGC	N Starting
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.	00 - YO	N

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		a their a C	-
	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
~	ZB ANNEX (normative) SPECIAL NATIONAL CON	IDITIONS (EN)	A B
3.2.1.1	In <b>Switzerland</b> , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A		N
	<ul> <li>SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A</li> <li>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:</li> <li>SEV 5932-2.1998: Plug Type 25, 3L+N+PE 230/400 V, 16 A</li> <li>SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A</li> </ul>	AGC BALL	
3.2.1.1	In <b>Denmark</b> , supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If poly-phase equipment and single-phase equipment having a		
	RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.	NO	
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.	C 3 3 A	<b>N</b>
	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.		H.
	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.	r.O	CC.
	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. T. R. Barris . C.	R. Sandar

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
~	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	The Bar
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.		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.	NOC -	GO
3.2.1.1	In <b>Ireland</b> , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.	A A A A	N
3.2.4	In <b>Switzerland</b> , for requirements see 3.2.1.1 of this annex.	- F stores const	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.	GC >	N
3.3.4	In the <b>United Kingdom</b> , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is:	E.H.B.A.	N
4.3.6	<ul> <li>1,25 mm<sup>2</sup> to 1,5 mm<sup>2</sup> nominal cross-sectional area.</li> <li>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.</li> </ul>	CR.T. H. M. M.	N Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-
4.3.6	In <b>Ireland</b> , DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.	ACCAL	CCN N

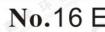
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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	不管
5.1.7.1	<ul> <li>In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment:</li> <li>STATIONARY PLUGGABLE EQUIPMENT TYPE A that is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for</li> </ul>		Ν
	example, in a telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that	ACCAL	CC <sup>2</sup>
<b>6</b> 0 **	conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT.	3. The CO	Stradius C
6.1.2.1 (A1:2010)	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation forming part of a		N
	<ul> <li>component, it shall at least consist of either</li> <li>two layers of thin sheet material, each of which shall pass the electric strength test below, or</li> </ul>	GC <sup>R</sup>	0
	- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	TA BE	A. M.
	Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	ACC	AG

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
~	ZB ANNEX (normative) SPECIAL NATIONAL CONE	DITIONS (EN)	小型
H. H. H.	<ul> <li>passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and</li> <li>is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul>	Call BCC	N
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).	2. A. 2. 3. 1. 1.	- C.*
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	NO B	0
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:		R That Bern
	- 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 ?	AC
	- 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	50
6.1.2.2	In <b>Finland</b> , <b>Norway</b> and <b>Sweden</b> , 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	NGC	N N
	CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.	<b>水</b> 唐書	The the
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.	CALC GO	N
France Conner Co	The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.		R. TA
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.	C. S. E. P.	N
7.3	In Norway, for installation conditions see EN 60728-11:2005.	CC -	N

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TABLE: list of critical compon	ents			Р
Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
NINGBO CSTAR IMP&EXP CO., LTD	350926	3.7V, 55mAh Max charging current: 50mA Max discharging current: 50mA	IEC 62133	IEC62133 Report No.:A001R2 0170918031
Interchangeable	Interchangeable	28AWG, 80°C	UL758	UL AVLV2
Interchangeable	Interchangeable	16ohm,3mW	EN60950-1	Tested with appliance
Interchangeable	Interchangeable	V-1, 130°C	UL94, UL796	UL ZPMV2
CHI MEI CORPORATION	PC-122F	Min.0.88mm, V-0, 80°C	UL94	UL E56070
	Manufacturer/ trademark NINGBO CSTAR IMP&EXP CO., LTD Interchangeable Interchangeable Interchangeable	NINGBO CSTAR IMP&EXP CO., LTD       350926         Interchangeable       Interchangeable         Interchangeable       Interchangeable         Interchangeable       Interchangeable         Interchangeable       Interchangeable	Manufacturer/ trademarkType/modelTechnical dataNINGBO CSTAR IMP&EXP CO., LTD3509263.7V, 55mAh Max charging current: 50mA Max discharging current: 50mAInterchangeableInterchangeable28AWG, 80°CInterchangeableInterchangeable16ohm,3mWInterchangeableInterchangeableV-1, 130°CCHI MEL CORPORATIONPC-122EMin.0.88mm, V-0,	Manufacturer/ trademarkType/modelTechnical dataStandardNINGBO CSTAR IMP&EXP CO., LTD3509263.7V, 55mAh Max charging current: 50mA Max discharging current: 50mAIEC 62133InterchangeableInterchangeable28AWG, 80°CUL758InterchangeableInterchangeable16ohm,3mWEN60950-1InterchangeableInterchangeableV-1, 130°CUL94, UL796CHI MELCORPORATIONPC-122EMin.0.88mm, V-0,III 94

1.6.2	TABLE: e	electrical data (	in normal cor	nditions)		P
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status
3.7	0.01		0.037	20		Discharge, the EUT was equipped with fully charge battery.
5.0	0.04	0.5	0.20			Charge, the EUT was equipped with fully discharge battery.

Note(s): --

2.1.1.5c)1)	TABLE:	max. V, A, VA tes	st		きょう	N
Voltage (rate	ed) (V)	Current (rated)	(A) V	oltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
18	ji ji	5 B	黄 年 一	- Franker	-C <sup>-</sup>	- " U "
Note(s):	- -	En a Ganar Carr		00	No. N	

2.1.1.5c)2)	TABLE: stored energy	R. T.	T	The State	C	N
	Capacitance C (µF)		Vol	tage U (V)	Ene	ergy E (J)
C.*	CO <sup>B</sup>	200	S			- 10
Note(s):	N			A.M.	NE P	Frank Const

2.2	TABLE: evaluation of voltage limiting components in SELV circuits					
Componen	t (maggy rad batwagg)	max. voltage (V)	max. voltage (V) (normal operation)			
Componen	it (measured between)	Vpeak	Vd.c.	Components		
	A THE REAL	C 32	C B	<u> </u>		

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Ρ

	. 19		Place.		Mar (188	and the second sec	
Fault test perform	ed on voltage	e limiting com	oonents	Voltage mea	sured (V) in SE	LV circuits (V p	eak or V d.c.)
A STATE	B	- Barnet	3	2		-	
Note(s):	JC'				The Benefician	The the second	The Barren
		100	The second		Folder	F dealer	The Jonation

2.5

TABLE: limited power source measurement

Measured Uoc (V) with all load circuits	Isc	(A)	VA		
disconnected:	Meas.	Limit	Meas.	Limit	
	The the	F The score			
Note(s):	\$	Barris			

2.10.2	TABLE: Working v	oltage measurement	「日間」 「「「」	N
Location		RMS voltage (V)	Peak voltage (V)	Comments
THE SOUTH	- F They Contra	a faith - a C		- L
Note(s):	C.3.			

2.10.3 and 2.10.4 TABLE: clearance and creepage distance measurements								
Clearance c distance dcr	el and creepage r at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)	
	-	1		B #	F There	The set		
Im-		The Second				- Q		

2.10.5	TABLE: distance through insulation	measurements	A Barrows	S. F. Sand	N
Distance th	nrough insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)
Note(s):		A TO	不堪	F. F. John	- 57

4.3.8	TABLE: Batte	eries	- 0	Research .	C.C.		0		Р
The tests of 4 not available	1.3.8 are appli	cable only v	when approp	riate batter	y data is		the P	1	Р
Is it possible	to install the b	attery in a r	everse polar	ity position	?	129/10 2.00	ed connecto attery pack		NG
The Company	Non-rea	chargeable	batteries			Rechargeab	le batteries	;	
	Disch	arging	Uninten-	Cha	rging	Discha	arging	Reverse	e Charging
P.C	Meas. current	Manuf. Specs.	tional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf.S pecs.	Meas. current	Manuf. Specs.

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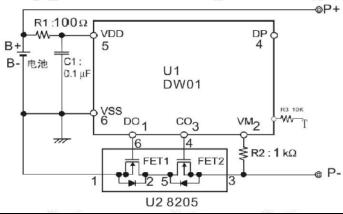
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Max. current during normal condition	B.S. H.	- C <sup>3</sup>	Harris .	36mA	50mA	8mA	50mA		
Max. current during fault condition	>			45mA	50mA	15mA	50mA		T. W. Com
Test results:	Test results:								
- Chemical leak	s	N.C	0			No		THE T	Р
- Explosion of the	ne battery		The Bar	小炮	THE CONTRACT	No			P
- Emission of fla	ame or expu	lsion of mo	lten metal	The second	~ *	No	GOT	~	Р
- Electric strength tests of equipment after completion of tests								N	
Note(s):					1		the P	E. R	The Clobal Control
		10	A TH		The Stranger	- 7	A COMPANY AND A	G	6

4.3.8 TABLE: Batteries	C P
Battery category:	Polymer Lithium Battery
Manufacturer:	A THE A THE AND A SAME
Type/model:	350926
Voltage, Capacity	3.7V, 55mAh
Circuit protection diagram:	See below of details.



MARKINGS AND INSTRUCTIONS (1.7.13)	
Location of replaceable battery	Non-replaceable battery
Language(s):	
Close to the battery:	- A there are the comments of the
In the servicing instructions:	
In the operating instructions:	
Note(s):	A K Barrie - The Barrier

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4.5	TABLE: maximum	emperature	s	C.ª	C.32	ation of	N	Р
Benne	Test voltage (V)	\$ <u></u>			charge mo discharge d		N. T.	
maximum	tomporature T of part/	at.			Т	(°C)		allowed
maximum temperature T of part/at:			а	ı)		b)	Tmax (°C)	
Button				42	2.1	4	1.8	75
PCB near	r U1 🗸 🗸	45.5		44.2		130		
Battery		1	- FILB	43.9		43.1		Ref.
Internal w	vire	The Francis	- 4	43.4			2.4	80
Internal e	nclosure	1 million	.C*	42.1			1.2	80
External e	enclosure	1		41	.7	4	0.5	75
Ambient			dir.	40	).0	a Share	0.0	
Temp	erature 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
	C-32 - (	<i>*</i>	-0					5
Note : Ha	ving a specified maxim	um ambient	temperat	ure of 40°C	NISI.	TP2	1 Barris	F 7 10

: Having a specified maximum ambient temperature of 40

4.5.5	TABLE: ball pressure test of thermoplastic parts	- CO	N
The second	allowed impression diameter (mm)	-	
Part		Test temperature(°C)	Impression diameter (mm)
西	The start chine a	0 - V	-
Note(s): -			the second second

4.7	TABLE: Resistance to	fire	The The Constant	- 3	Р
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
Turnent	- C - N				Barrie
Note(s): Ref	er to table 1.5.1	-111	NE AN	Frank Frank	- 57

5.1	TABLE: touch current n	neasurement	- GO-	20	N
Measured b	between:		Measured(mA)	Limit(mA)	Comments/conditions
2.			- T.	The second	C
Note(s):					
The Complete	- 3 1000 1	E John I			

5.2	TABLE: electric strength tests and impulse tests	E P	The Barrie	N
Test voltage applied between:		Test voltage (V)	Breakdown	

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10-	E TA B		- C 3	and a start	- 3-	No	- 200
Note(s):	C	C.B.	No	S			
	2 .0				相	1/2 1/2	The Barbar

5.3	B TABLE: fault condition tests					5 Friday al	Р
NR.	ambient temperature (°C):			24.3			
The Action	rate	ed markings of pow	er supply				
Component no.		Fault	Test voltage (V)	Test time	Fuse no.	Result	
Battery	1	Output,S-C	Strainer -	10min	- C <sup>2</sup>	Unit shutdown immediately. No hazards.	
Battery	Ford Good	Overcharge, B- and P-, S-C	5.0	7h	<u> </u>	No hazards. Battery enclosure: 26.3°C	
Battery	1	Discharge, B- and P-, S-C		2h	The second	No hazards. Battery enclosure: 25.5°C	
U3 Pin 3-4, S-C		Pin 3-4, S-C	5.0	10min		Unit shutdown immediately. No hazards.	
Speaker S-C		- 2	10min		Speaker not work, no damage and hazards.		
Fault: S-C =	short	circuit	-111	1	T. Th	E Stranger	C

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## Attachment A Photos of product



Fig.1 – overview



Fig.2 – overview

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Fig.3 - overview

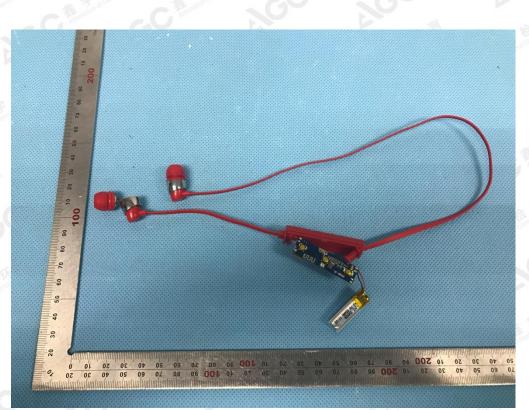


Fig.4 – partview

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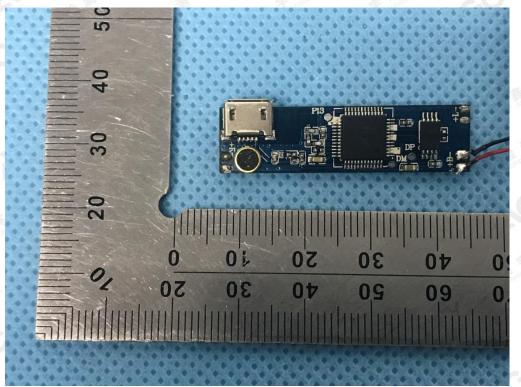


Fig.5 - partview

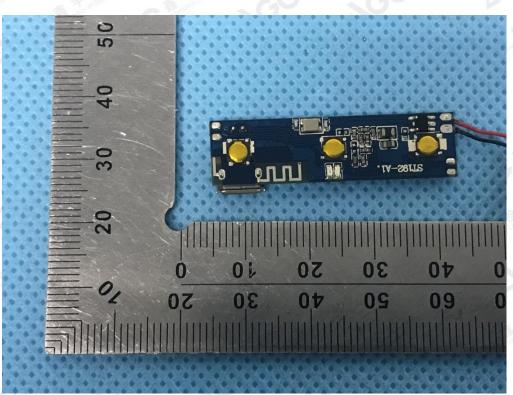


Fig.6 – partview

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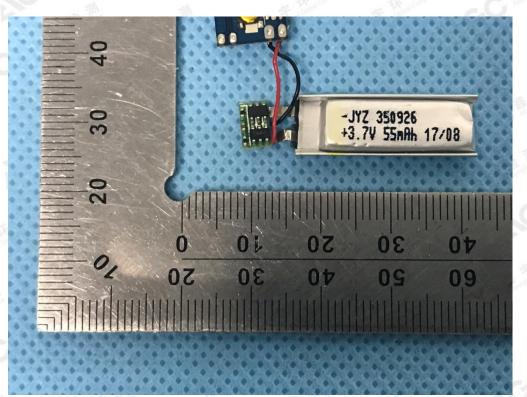


Fig.7 - battery

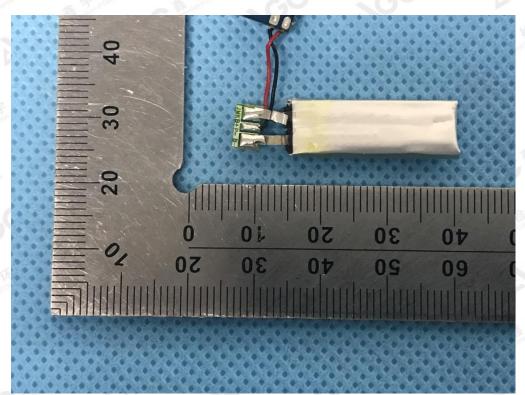


Fig.8 – battery

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