

Safety Test Report

Report No.: AGC10385171001ES01

PRODUCT DESIGNATION : Twist wireless headphone

BRAND NAME : N/A

MODEL NAME : P326.34

CLIENT: Xindao B.V.

DATE OF ISSUE : Oct. 23, 2017

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

REPORT VERSION: V1.0

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

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TEST REPORT

EN 60950-1

Information technology equipment-Safety-Part 1: General requirements

Report Reference No...... AGC10385171001ES01

Tested by (+ signature) Devin Ren

Devin Ren Jennyli mette He

Reviewed by (+ signature) Jenny Li

Matte He Approved by (+signature)

(Authorized Officer)

Date of issue Oct. 23, 2017

Contents...... Total 52 pages.

Testing laboratory

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

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

Manufacturer

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

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

Factory

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

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

Test specification

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

Test procedure Type test

Procedure deviation...... N/A

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

Test Report Form/blank test report

Test Report Form No...... AGC60950A8

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

Master TRF Dated 2017-01

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Test item	
Product designation Twist wireless h	neadphone
Brand name N/A	
Test model P326.34	
Series model N/A	
Rating(s) 5.0V === , 0.5A	(Supplied by USB port)
Particulars	
Equipment mobility:	☐ movable ☐ hand-held ☐ transportable
Connection to the mains:	☐stationary ☐for building-in ☐direct plug-in ☐pluggable equipment ☐ type A ☐type B
Connection to the mains	permanent connection
- C 3	detachable power supply cord
	☐non-detachable power supply cord ☐not directly connected to the mains
Operating condition:	Continuous
A Training of the second of th	rated operating/ resting time:
Access location:	operator accessible
0	restricted access location
Over voltage category(OVC):	OVC I □OVC II □OVC III □OVC IV ☑other
Mains supply tolerance(%) or absolute mains supply values:	N/A
Tested for IT power systems:	□Yes ⊠No
IT testing, phase-phase voltage(V):	N/A
Class of Equipment:	☐ Class I ☐ Class II ☐ Class III ☐ not classified
Considered current rating of protective device as part of the building installation (A):	N/A
Pollution degree(PD):	□PD 1 □PD3
Protection against ingress of water:	IPX0
Altitude during operation (m):	2000m
Altitude of test laboratory (m):	<500m
Mass of equipment (kg):	Less 1kg
Test case verdicts	-03
Test case does not apply to the test object:	N (/A)
Test item does meet the requirement:	P (ass)
Test item does not meet the requirement:	F (ail)
Testing	C. C. C. L.
Date of receipt of test item:	Oct. 12, 2017
Date(s) of performance of test:	Oct. 12 – Oct. 23, 2017

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Attachment

Attachment A...... Photos of product

General remarks

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

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

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

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

Report Revise Re	cord:	1111	III.	· 利
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1 - 9	Oct. 23, 2017	Valid	Initial release

General product information

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

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

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

Summary of testing

The test item passed.

Copy of marking plates

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

> Twist wireless headphone Model: P326.34 Xindao B.V. P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

- 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	Verdict
		The state of the s	F Marie
1	GENERAL	$-G^*$	Р
大地			
1.5	Components	- N	P
1.5.1	General	拉那	Р
	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)		P M
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.C
1.5.3	Thermal controls	No any thermal controls.	N
1.5.4	Transformers	No transformers.	N
1.5.5	Interconnecting cables	Cable to other unit is carrying only SELV voltages on and energy level below 240VA	Р
1.5.6	Capacitors bridging insulation	No such capacitor.	N
1.5.7	Resistors bridging insulation	No such components.	N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	A The Care of the	N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	100 100 100 100 100 100 100 100 100 100	N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable	不是想	N
1.5.8	Components in equipment for IT power systems	43 CO N	N
1.5.9	Surge suppressors	No such parts.	N
1.5.9.1	General	- in	N
1.5.9.2	Protection of VDRs	E TO THE STATE OF	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	F BU TEN	N

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	EN 60	950-1				
Clause	Clause Requirement – Test Result – Remark V					
1.6	Power interface	· · · · · · · · · · · · · · · · · · ·	P			
1.6.1	AC power distribution systems	No direct mains connection.	N			
1.6.2	Input current	(See appended table 1.6.2)	Р			
1.6.3	Voltage limit of hand-held equipment	10 10 10	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	Panara
30	Rated voltage(s) or voltage range(s) (V)	5.0V(no show)	
- 恒	Symbol for nature of supply, for d.c. only	= (no show)	
The state of the s	Rated frequency or rated frequency range (Hz):	CO DO	
and the same	Rated current (mA or A)	0.5A (no show)	
1.7.1.2	Identification markings	T. T.	P
杨	Manufacturer's name or trademark or identification mark:	Xindao B.V.	
- F Thursday	Type/model or type reference:	P326.34	
	Symbol for Class II equipment only:	Class III equipment	
	Other marking and symbols:	See marking plate.	
1.7.1.3	Use of graphical symbols	60, 100	Р
1.7.2	Safety instructions and marking	Provided	Р
1.7.2.1	General	See below.	P
1.7.2.2	Disconnect devices	No such devices	N
1.7.2.3	Overcurrent protective device	- GO	N
1.7.2.4	IT power distribution systems		N
1.7.2.5	Operator access with a tool	T. T.	N
1.7.2.6	Ozone		N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N
1.7.4	Supply voltage adjustment:	No such devices used	N
	Methods and means of adjustment; reference to installation instructions:	TO STATE OF	N
1.7.5	Power outlets on the equipment:	- 60	N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):		N
1.7.7	Wiring terminals	The state of the s	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment, no protective earthing	N
1.7.7.2	Terminal for a.c. mains supply conductors	C. C.	N
1.7.7.3	Terminals for d.c. mains supply conductors	100 10	N
1.7.8	Controls and indicators	6.1	P
1.7.8.1	Identification, location and marking:	It is obviously unnecessary.	N
1.7.8.2	8.2 Colours		P
1.7.8.3	Symbols according to IEC 60417	- 10	N
1.7.8.4	Markings using figures	Not applicable.	o ed Carellin
1.7.9	Isolation of multiple power sources:	No direct connection to mains supply	N
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices used inside battery pack are not adjustable during normal use.	N
1.7.11	Durability	The marking withstands required tests.	∪ P
1.7.12	Removable parts	No such parts.	N
1.7.13	Replaceable batteries	Non-replaceable battery	N
pace :	Language(s)	The state of the s	
1.7.14	Equipment for restricted access locations:	C**	N

2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards	No hazardous parts in operator access areas.	P
2.1.1	Protection in operator access areas	100 100	Р
2.1.1.1	Access to energized parts	No energized parts.	Р
~	Test by inspection	报酬 果死症	
	Test with test finger(Figure 2A)	# Marion C Marion	
4	Test with test pin (Figure 2B):		
C 1	Test with test probe (Figure 2C)		
2.1.1.2	Battery compartments	· · · · · · · · · · · · · · · · · · ·	N
2.1.1.3	Access to ELV wiring	LOT	N
臣 测	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	CC . YO	
2.1.1.4	Access to hazardous voltage circuit wiring	大	N
2.1.1.5	Energy hazards:	No energy hazard in operator access area.	P

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
2.1.1.6	Manual controls	大电影 电影	N
2.1.1.7	Discharge of capacitors in equipment	No primary circuit.	N
-	Time-constant (s); measured voltage (V)	-C- CO	
2.1.1.8	Energy hazards – d.c. mains supply	Not directly connect to mains supply	N
station of C.	a)Capacitor connected to the d.c. mains supply:	11 正是	N
70	b)Internal battery connected to the d.c. mains supply	-Carrie	N
2.1.1.9	Audio amplifiers	No any amplifiers	N
2.1.2	Protection in service access areas		N
2.1.3	Protection in restricted access locations		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
2.2.2	Voltages under normal conditions (V)	Within SELV limits.	Р
2.2.3	Voltages under fault conditions (V)	Within SELV limits.	∰ P
2.2.4	Connection of SELV circuits to other circuits:	The state of the s	N

2.3	TNV circuits	100	N
2.3.1	Limits	No TNV circuits.	N
60	Type of TNV circuits:	10000000000000000000000000000000000000	N
2.3.2	Separation from other circuits and from accessible parts	CC SCO	N
2.3.2.1	General requirements		M N
2.3.2.2	Protection by basic insulation	不 一	N
2.3.2.3	Protection by earthing	其	N
2.3.2.4	Protection by other constructions	- 18 N	N
2.3.3	Separation from hazardous voltages		N
-,0	Insulation employed:		N
2.3.4	Connection of TNV circuits to other circuits	- 6	N
A TIME	Insulation employed	-C*	N
2.3.5	Test for operating voltages generated externally		N

24	Limited current circuits	THE STATE OF THE S	- F 10000	N
2.7	Littlice current circuits			P. IN

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Clause	Requirement – Test	Result – Remark	Verdict	
2.4.1	General requirements	No limited current circuits to be evaluated.	N	
2.4.2	Limit values		N	
182 T	Frequency (Hz)	, , , , , ,	N	
子 King Com	Measured current (mA)		N	
A STATE OF THE STA	Measured voltage (V)	T. T.	N	
-011	Measured capacitance (nF or μF)	The State of the S	N	
2.4.3	Connection of limited current circuits to other circuits	Day For Di	N	

2.5	Limited power sources		N
不能	a)Inherently limited output	C.32	N
Station of Giran	b)Impedance limited output	Co	N
	c)Regulating network limited output under normal operating and single fault condition		N
	d)Overcurrent protective device limited output	E. C. C.	N
一字环	Max. output voltage (V), max. output current (A), max. apparent power (VA):	NO THE	
	Current rating of overcurrent protective device (A)	张 整	N
	Use of integrated circuit (IC) current limited	The state of the s	N

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

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Clause 2.6.4

2.6.4.1

2.6.4.2

2.6.4.3

2.6.5

2.6.5.1

2.6.5.2

2.6.5.3

2.6.5.4

2.6.5.5

2.6.5.6

2.6.5.7

2.6.5.8

Components in protective earthing conductors

Reliance on telecommunication network or cable

Parts that can be removed by an operator

Integrity of protective earthing

Interconnection of equipment

and protective bonding conductors

Disconnection of protective earth

Parts removed during servicing

Screws for protective bonding

Corrosion resistance

distribution system

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N

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N

	EN 60950-1	
Requirement – Test	Result – Remark	Verdict
Terminals	大龙	N.
General	The state of the s	N
Protective earthing and bonding terming	nals	N N
Rated current (A), type and nominal the		N
Separation of the protective earthing of from protective bonding conductors	conductor	N Manual Control of the Control of t
Integrity of protective earthing		N

100			IN COMP	
2.7	Overcurrent and earth fault protection in prima	ry circuits	N	
2.7.1	Basic requirements	No primary circuits.	N	
~C3	Instructions when protection relies on building installation	· · · · · · · · · · · · · · · · · · ·	N	
2.7.2	Faults not covered in 5.3.7	The same of the sa	N	
2.7.3	Short-circuit backup protection	" CO" CO	N	
2.7.4	Number and location of protective devices:		M N	
2.7.5	Protection by several devices	T. T.	N	
2.7.6	Warning to service personnel:	· 沃。	N	

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

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

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

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

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
2.10.3.3	Clearances in primary circuits	大电影 电影	N
2.10.3.4	Clearances in secondary circuits	The transfer of the transfer o	N
2.10.3.5	Clearances in circuits having starting pulses	CO CO	N
2.10.3.6	Transients from a.c. mains supply:		N
2.10.3.7	Transients from d.c. mains supply:	all a	N N
2.10.3.8	Transients from telecommunication networks and cable distribution systems	- Car	N
2.10.3.9	Measurement of transient voltage levels		N
- 1 T	a)Transients from a mains supply		N
30	For a.c. mains supply	也是 不是	N N
45.	For d.c. mains supply:	and the state of t	N
F The comme	b)Transients from	CO. So	N
2.10.4	Creepage distances		N
2.10.4.1	General	亚	N
2.10.4.2	Material group and comparative tracking index		N
~ 炮	CTI tests	100	N
2.10.4.3	Minimum creepage distances	70	M N
2.10.5	Solid insulation	· · · · · · · · · · · · · · · · · · ·	N
2.10.5.1	General	C . C .	N
2.10.5.2	Distances through insulation	00	N
2.10.5.3	Insulation compound as solid insulation		N
2.10.5.4	Semiconductor device	我想 不是	N
2.10.5.5	Cemented joints	Citizan Con	N
2.10.5.6	Thin sheet material - General	100 VC	N
2.10.5.7	Separable thin sheet material		N
- NC	Number or layers(pcs):	4. 11	N _m
2.10.5.8	Non-separable thin sheet material	THE RESERVE OF THE PARTY OF THE	- N
2.10.5.9	Thin sheet material – standard test procedure		N
C 35.00	Electric strength test		N
2.10.5.10	Thin sheet material – alternative test procedure	成形 人名	N
	Electric strength test	The state of the s	N N
2.10.5.11	Insulation in wound components	20 10	N
2.10.5.12	Wire in wound components		N
\ O	Working voltage:	在 · · · · · · · · · · · · · · · · · · ·	N
	a)Basic insulation not under stress:	R. S.	N

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Clause	Requirement – Test	Result – Remark	Verdict
\O	b)Basic, supplementary, reinforced insulation:	· 技术	N
	c)Compliance with Annex U	The Hand Country of the Country of t	N
T. 图 T	Two wires in contact inside wound component; angle between 45° and 90°	CO. SOC.	N
2.10.5.13	Wire with solvent-based enamel in wound components		N
-011	Electric strength test	The state of the s	N
A CONTRACTOR	Rountine test	- 12	N
2.10.5.14	Additional insulation in wound components		N
C	Working voltage:		N
	-basic insulation not under stress	- C -	N
五 1	-Supplementary, reinforced insulation:	-C*	N
2.10.6	Construction of printed boards	100	N
2.10.6.1	Uncoated printed boards	· 电型	N
2.10.6.2	Coated printed boards	The state of the s	N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	CO DO	N
2.10.6.4	Insulation between conductors on different layers of a printed board	环. B. 18	N
	Distance through insulation	C3 - C3	N
The state of the s	Number of insulation layers(pcs)	0	N
2.10.7	Component external terminations	10	N
2.10.8	Tests on coated printed boards and coated components	K.E. A. T. IV.	N
2.10.8.1	Sample preparation and preliminary inspection	CO . CO	N
2.10.8.2	Thermal conditioning		N
2.10.8.3	Electric strength test	一班 下。	N
2.10.8.4	Abrasion resistance test	The state of the s	N
2.10.9	Thermal cycling	- * CO N	N
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N. T
2.10.11	Test for semiconductor devices and cemented joints	A SECOND	N
2.10.12	Enclosed and sealed parts	20"	N

3	WIRING, CONNECTIO	NS AND SUPPLY	承	不是	P
3.1	General	The Parison of the Pa	Fred Color	- 5 - 0	Р

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

3.2	Connection to a mains supply		N
3.2.1	Means of connection	Class III equipment	N
3.2.1.1	Connection to an a.c. mains supply	The state of the s	N
3.2.1.2	Connection to a d.c. mains supply	CO CO	N
3.2.2	Multiple supply connections	10	N
3.2.3	Permanently connected equipment		N
O-	Number of conductors, diameter (mm) of cable and conduits:	C. C.	
3.2.4	Appliance inlets	100 10	N
3.2.5	Power supply cords	~ 卷	N
3.2.5.1	AC power supply cords	E The state of the	N
	Туре:	- C	
- F	Rated current (A), cross-sectional area (mm²), AWG:	C. FO D	
3.2.5.2	DC power supply cords	上班 电型	N
3.2.6	Cord anchorages and strain relief	-C	N
报柳	Mass of equipment (kg), pull (N)	CC 10	
Count	Longitudinal displacement (mm)	NO and	
3.2.7	Protection against mechanical damage	· · · · · · · · · · · · · · · · · · ·	N
3.2.8	Cord guards	- 3 The Control of th	N

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	EN 00050 4		
	EN 60950-1		1
Clause	Requirement – Test	Result – Remark	Verdict
\G	D (mm); test mass (g)	1 电影	
	Radius of curvature of cord (mm)	A Property of the second	
3.2.9	Supply wiring space	-G"	N

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

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

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

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Clause	Requirement – Test	Result – Remark	Verdict
3.5.4	Data ports for additional equipment		N

4	PHYSICAL REQUIREMENTS	a.C	60	Р
4.1	Stability	10		N
entation of G	Angle of 10°	:111	不懂。	N
	Test: force (N)	The Bearing	第 字 d 0000	N

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

4.3	Design and construction		P
4.3.1	Edges and corners	Edges and corners are rounded.	Р
4.3.2	Handles and manual controls; force (N)	2 10 13	N
4.3.3	Adjustable controls	No such adjustable control.	N
4.3.4	Securing of parts	No loosening of parts is likely to occur.	Р
4.3.5	Connection of plugs and sockets	IEC60083 and IEC60320 connectors are not used in equipment.	Р
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	N
_(Torque	大	N

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Clause	Requirement – Test	Result – Remark	Verdict	
NO	Compliance with the relevant mains plug standard	是 环境 一	N	
4.3.7	Heating elements in earthed equipment	No heating elements.	N	
4.3.8	Batteries	700 10	Р	
And Chapter	-Overcharging of a rechargeable battery	(see appended table 4.3.8)	P	
-01	-Unintentional charging of a non-rechargeable battery	Non-rechargeable battery	N	
A CONTRACTOR	-Reverse charging of a rechargeable battery	Battery pack polarity cannot be reversed.	N	
A 10 10	-Excessive discharging rate for any battery	(see appended table 4.3.8)	P	
4.3.9	Oil and grease	No Oil and grease.	and calcolor N	
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N	
4.3.11	Containers for liquids or gases	No containers for liquids or gases	N	
4.3.12	Flammable liquids:	The equipment does not contain flammable liquid.	N	
	Quantity of liquid (I):	- 1 - C	○ N	
極	Flash point (°C)	Section 1	N	
4.3.13	Radiation; type of radiation:		₩ P	
4.3.13.1	General		Р	
4.3.13.2	Ionizing radiation	No ionizing radiation	N	
- All	Measured radiation (pA/kg)	GU CO		
- 6	Measured high-voltage (kV)			
C30 "	Measured focus voltage (kV)	· · · · · · · · · · · · · · · · · · ·		
	CRT markings	The second secon		
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	N	
station of Circles	Part, property, retention after test, flammability classification:		N	
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	The Second Secon	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	
30	Laser class			
4.3.13.5.2	Light emitting diodes (LEDs)	Indicating LED only.	Р	
4.3.13.6	Other types	2.C = 10	N	

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

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Clause	Requirement – Test	Result – Remark	Verdict
4.4.2	Protection in operator access areas	大樓 一樓 那	N
	Household and home/office document/media shredders	C. C.	N
4.4.3	Protection in restricted access locations	100 100	N
4.4.4	Protection in service access areas	也	N
4.4.5	Protection against moving fan blades	也是 生活。	N
4.4.5.1	General	a G	N
er interpretation	Not considered to cause pain or injury. a):		N
6	Is considered to cause pain, not injury. b):		N
-,0	Considered to cause injury. c):	拉	N
4.4.5.2	Protection for users		N
F of Chical Con	Use of symbol or warning:	20"	N
4.4.5.3	Protection for service persons		N
	Use of symbol or warning	· · · · · · · · · · · · · · · · · · ·	N

4.5	Thermal requirements	, CO	Р
4.5.1	General	1	∰ P
4.5.2	Temperature tests	(see appended table 4.5)	Р
	Normal load condition per Annex L	C 3 - 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	No.	M N
4.6.1	Top and side openings	E III	N
	Dimensions (mm):	- G	
4.6.2	Bottoms of fire enclosures		N
C.*	Construction of the bottom		
4.6.3	Doors or covers in fire enclosures	拉門 环境点 集	N
4.6.4	Openings in transportable equipment		N
4.6.4.1	Constructional design measures	30	N
	Dimensions(mm)		N
4.6.4.2	Evaluation measures for larger openings	基	N
4.6.4.3	Use of metallized parts		N

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Clause	Requirement – Test	Result – Remark	Verdict
4.6.5	Adhesives for constructional purposes	· · · · · · · · · · · · · · · · · · ·	N
	Conditioning temperature (°C), time (weeks):	A Hardinary State of the State	

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

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

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
√ C	Measured touch current (mA)	10000000000000000000000000000000000000	N
	Max. allowed touch current (mA)	The state of the s	N
	Measured protective conductor current (mA):	1 - CO	N
The state of	Max. allowed protective conductor current (mA) .:	10 10	N
5.1.7	Equipment with touch current exceeding 3.5 mA:	11 不是	N
5.1.7.1	General	The Market State of S	N
5.1.7.2	Simultaneous multiple connections to the supply	1 CO 1	N
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks		N
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system	CC TO LOCK	N
dissiplica.	Test voltage (V)		N
10	Measured touch current (mA)	水 橙	N
-	Max. allowed touch current (mA)		V N
5.1.8.2	Summation of touch currents from telecommunication networks	SGO I	N
	a)EUT with earthed telecommunication ports:	The State of the S	N
- Till	b)EUT whose telecommunication ports have no reference to protective earth	- C1 - CC	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		
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P
5.3.2	Motors		N
5.3.3	Transformers	No transformers	N
5.3.4	Functional insulation	See appended table 5.3. Complies with c)	P
5.3.5	Electromechanical components	C. S. CO	N
5.3.6	Audio amplifiers in ITE	: 0	N
5.3.7	Simulation of faults	Result see appended table 5.3.	P#
5.3.8	Unattended equipment	The state of the s	N

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Clause						
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	P			
5.3.9.1	During the tests	No hazards.	Р			
5.3.9.2	After the tests	No fire, no danger.	Р			

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

6.2	Protection of equipment users from overvoltages on telecommunication networks		N
6.2.1	Separation requirements		N
6.2.2	Electric strength test procedure	T. T. St.	N
6.2.2.1	Impulse test	C.3 - C.3	N
6.2.2.2	Steady-state test	00 10	N
6.2.2.3	Compliance criteria	30	N

6.3	Protection of the telecommunication wiring system from overheating	N
Th 10	Max. output current (A)	
station of Gar	Current limiting method	48

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS General		N
7.1			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 TOP OF	N
7.3	Protection of equipment users from overvoltages on the cable distribution system	VCC. From	N
7.4	Insulation between primary circuits and cable distribution systems	我想	N

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	EN 60950-1				
Clause	Requirement – Test		Result – Remark	Verdict	
7.4.1	General		10000000000000000000000000000000000000	N N	
7.4.2	Voltage surge test	70	要 等 · · · · · · · · · · · · · · · · · ·	N	
7.4.3	Impulse test	The state of the s	G a C	N N	

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Clause	Requirement – Test	Result – Remark	Verdict	
Α 🤇	ANNEX A, TESTS FOR RESISTANCE TO HEAT	AND FIRE	N ®	
A.1	Flammability test for fire enclosures of movable exceeding 18 kg, and of stationary equipment (se		N	
A.1.1	Samples:	3 30 30		
of Giornal	Wall thickness (mm)	16		
A.1.2	Conditioning of samples; temperature (°C):	10000000000000000000000000000000000000	N	
A.1.3	Mounting of samples	-0	N	
A.1.4	Test flame (see IEC 60695-11-3)	C N	N	
A 5 "	Flame A, B, C or D			
A.1.5	Test procedure	東門 环境 集	N	
A.1.6	Compliance criteria	4 3 60	N	
F The com	Sample 1 burning time (s)	CO		
anstall.	Sample 2 burning time (s)			
10	Sample 3 burning time (s)			
A.2	Flammability test for fire enclosures of movable exceeding 18 kg, and for material and component 4.7.3.2 and 4.7.3.4)		N	
A.2.1	Samples, material	100		
0	Wall thickness (mm)			
A.2.2	Conditioning of samples	-0" -00"	N	
A.2.3	Mounting of samples	10	N	
A.2.4	Test flame (see IEC 60695-11-4)	11 技工	N	
0	Flame A, B or C	T. 格		
A.2.5	Test procedure	-03-60	N	
A.2.6	Compliance criteria	100	N	
etalion.	Sample 1 burning time (s)			
17/	Sample 2 burning time (s)	The state of the s		
	Sample 3 burning time (s)	- CO - N		
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8		N	
3	Sample 1 burning time (s)	中型 不吃		
-0	Sample 2 burning time (s)			
图测	Sample 3 burning time (s)	20		
A.3	Hot flaming oil test (see 4.6.2)	311	N	
A.3.1	Mounting of samples	下 整 。	N	
A.3.2	Test procedure	The state of the s	N	

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	EN 60950-1	A** W 100	
Clause	Requirement – Test	Result – Remark	Verdict
A.3.3	Compliance criterion	10000000000000000000000000000000000000	N

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

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N
III. Se	Position	No transformers	
Old Coulding	Manufacturer:	100	
	Type:	我想 "我想	
	Rated values:	The state of the s	

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Clause	Requirement – Test	Result – Remark	Verdict		
- (Method of protection:	· · · · · · · · · · · · · · · · · · ·			
C.1	Overload test	# 4 Jan - 1	N		
C.2	Insulation	-CC	N		
- 环 ·	Protection from displacement of windings:	10. 10.	N		

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

1	Е	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	M N
	-6		

AFF COM	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES	
Attestation	(see 2.10)	_ J

G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	
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
G.3	Determination of telecommunication network transient voltage (V):	N
G.4	Determination of required withstand voltage (V) .:	N M
G.4.1	Mains transients and internal repetitive peaks:	N
G.4.2	Transients from telecommunication networks:	N
G.4.3	Combination of transients	N N
G.4.4	Transients from cable distribution systems	N N
G.5	Measurement of transient levels (V):	N
131	a) Transients from a mains supply	N
	For an a.c. mains supply	N A
130	For a d.c. mains supply	N
	b) Transients from a telecommunication network	N

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Clause	Requirement – Test	Result – Remark	Verdict
G.6	Determination of minimum clearances:	工作 "	N ®
1		The state of the s	The state of column
ш	ANNEX H, IONIZING RADIATION (see 4.3.13)		N

J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	
	Metal used:	

K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.7)	
K.1	Making and breaking capacity	TI N
K.2	Thermostat reliability; operating voltage (V):	N N
K.3	Thermostat endurance test; operating voltage (V):	N.C
K.4	Temperature limiter endurance; operating voltage (V):	N N
K.5	Thermal cut-out reliability	CN
K.6	Stability of operation	N

T.	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		
L.1	L.1 Typewriters		N
L.2	Adding machines and cash registers	10, 10	N
L.3	Erasers	- mil	N
L.4	Pencil sharpeners	不整 一学	N N
L.5	Duplicators and copy machines	5 - C	N
L.6	Motor-operated files	10	N
L.7	Other business equipment		P

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

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Clause	Requirement – Test	Result – Remark	Verdict	
M.3.2	Tripping device and monitoring voltage:	10000000000000000000000000000000000000	N	
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	- 13. The Control of	N	
M.3.2.2	Tripping device	100 10	N	
M.3.2.3	Monitoring voltage (V):		N	

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

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

Q	ANNEX Q, Voltage dependent resistors (VDRS) (see 1.5.9.1)	N
	-Preferred climatic categories:	O N
	-Maximum continuous voltage:	N
弄到	-Combination pulse current:	- N
The state of the s	Body of the VDR Test according to IEC 60695- 11-5:	N
111	Body of the VDR. Flammability class of material (min V-1):	N

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

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

Tampiar at	ANNEX T, GUIDANCE ON PROTECT	TON AGAINST INGRESS OF WA	TER	N
31000	(see 1.1.2)		100	

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	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
n 20	ANNEX U, INSULATED WINDING WIRES FOR INSULATION (see 2.10.5.4)	USE WITHOUT INTERLEAVED	N TO
	T. T	$C^{3} = C^{3} = C^{3}$	and the second
V K	ANNEX V, AC POWER DISTRIBUTION SYSTEM	MS (see 1.6.1)	N
V.1	Introduction		N
V.2	TN power distribution systems	在那 年 5000	N
-700	11	-6	C.O."
N	ANNEX W, SUMMATION OF TOUCH CURRENT	rs	N
W.1	Touch current from electronic circuits		N
N.1.2	Earthed circuits	· 技工	N
N.2	Interconnection of several equipments	1 To	N
N.2.1	Isolation	- CO	N
N.2.2	Common return, isolated from earth		N
N.2.3	Common return, connected to protective earth	The Bearing The Second	N
X X.1	ANNEX X, MAXIMUM HEATING EFFECT IN TR C.1) Determination of maximum input current	ANSFORMER 1ESTS (see clause	N N
	Determination of maximum input current	T. T. T. T.	N
X.2	Overload test procedure	1 C * C * C	N
792	ANNEY Y LILTEAWOLET LIGHT CONDITIONS	VO TEST (co. 4.2.42.2)	
<u> </u>	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN		N
Y.1	Test apparatus		N N
Y.2	Mounting of test samples	35.00	N
Y.3	Carbon-arc light-exposure apparatus		N
Y.4	Xenon-arc light exposure apparatus		N
z	ANNEX Z, OVERVOLTAGE CATEGORIES(see	2.10.3.2 and Clause G.2)	N
	The State of the S	C	0
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	30	N
10	CO EN EN		The Committee
ЗВ	ANNEX BB, CHANGES IN THE SECOND EDITI	ON	
711	The state of the s	-0	
CC	ANNEX CC, Evaluation of integrated circuit (IC	c) circuit limiters	N
CC.1	General	我想 《推正	N
CC.2	Test program 1		N

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

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

EE 3/1	ANNEX EE, Household and home/office document/media shredders		Ν
EE.1	General		N
EE.2	Marking and instructions	The Barrier of The State of the	N
	Use of markings or symbols:	E 300 C	N
手环	Information of user instructions, maintenance and/or servicing instructions:	P.GO I	N
EE.3	Compliance:	T. B. T. T.	N
EE.4	Disconnection of power to hazardous moving parts:	CC************************************	N
The latest	Use of markings or symbols:	10	N
EE.5	Protection against hazardous moving parts	11	N
0	Test with test finger (figure 2A):	The state of the s	N
***	Test with wedge probe (figure EE1 and EE2):	-C	N

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				EN 60950-1			
Clause	Requirer	ment – Test			Res	sult – Remark	Verdict
EN	0 4					MMON MODIFICAT	IONS
		subclauses, no 0-1 and it's ame		nd figures which a prefixed "Z"	are additional	to those in	A CONTRACTOR
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		II the —countryll g to the followin		reference docum	nent (IEC 6095	0-1:2005)	P
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	秋
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	a don of Globa
	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	12
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	C The same
	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	1 TIM
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	Column I
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	< G'
A Pro-	G.2.1	Note 2	Annex H	Note 2	60	NO.	
General (A1:2010)		ll the "country" n g to the followin		ference docume	nt (IEC 60950	-1:2005/A1:2010)	P
	1.5.7.1	Note		6.1.2.1	Note 2		Mostation of Gr
2	6.2.2.1	Note 2	The state of the s	EE.3	Note	4.0005/40.0040)	P
General (A2:2013)	according 2.7.1 6.2.2.	g to the following Note * Note	g list:	2.10.3.1 Modification rem	Note 2	-1:2005/A2:2013) ed.	
1.1.1	Replace	the text of NOT	E 3 by the fol	lowing.	B	GU	<u> </u>
(A1:2010)	multimedi		IEC Guide 11	nay also be used to 2, Guide on the sa		quirements for lia equipment. For	三环粒型

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	EN 60950-1	D 11 D 1	
Clause	Requirement – Test	Result – Remark	Verdict
.3.Z1	Add the following subclause:	大龙 地	· 张
	1.3.Z1 Exposure to excessive sound pressure	The of Country of the	F. P
	The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either	C CC	3000
	in normal operating conditions or under fault conditions,		
	particularly providing protection against exposure to excessive		3 M
	sound pressures from headphones or earphones.	. 那	15 m
	NOTE Z1 A new method of measurement is described in EN	product of the state of the sta	- 6
	50332-1, Sound system equipment: Headphones and earphones associated with portable audio	- GU >	0
	equipment - Maximum sound pressure level measurement		311
	methodology and limit considerations - Part 1: General method	100	The Waller
	for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated	不 地 有	Sound Globa
	with portable audio equipment - Maximum sound pressure	Z.C	- C
	level measurement methodology and limit considerations -		
	Part 2: Guidelines to associate sets with headphones coming		
140,0044)	from different manufacturers.		1/2
A12:2011)	In EN 60950-1:2006/A12:2011	The state of the s	-C
	Delete the addition of 1.3.Z1 / EN 60950-1:2006	- C 3	Р
.5.1	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	3 F	
.O. The second calculate	Add the following NOTE: NOTE Z1 The use of certain substances in electrical and	70	10
	electronic equipment is restricted within the EU: see Directive	· 新型	N
Added info*)	2002/95/EC.	and the second	. (1
2007	New Directive 2011/65/11 *	-G ^O	
.7.2.1 A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from		N
711.2010)	earphones and headphones can cause hearing loss.	校 测	不相
.7.2.1	In EN 60950-1:2006/A12:2011	The state of the s	The second second
A12.2011)	Delete NOTE Z1 and the addition for Portable Sound System.	C The CC	Р
	Add the following clause and annex to the existing standard and amendments.	30	
aculton a City	Zx Protection against excessive sound pressure from persor	nal music players	P
	Zx.1 General	B To Find	_ %
	This sub-clause specifies requirements for protection against	- 6	N
	excessive sound pressure from personal music players that	0	
	are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal		13.7
	music players.	111	The Colonia
	A personal music player is a portable equipment for personal	The state of the s	And tollow or
	use, that: - is designed to allow the user to listen to recorded or	100 P	30
	broadcast sound or video; and		
	- primarily uses headphones or earphones that can be worn in	-11	2.4
	or on or around the ears;	The state of the s	- 5
	- allows the user to walk around while in use.	- F 10000	

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lavaa	EN 60950-1	Descrit Demonts	Mardia
lause	Requirement – Test	Result – Remark	Verdict
	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.	C B THE TOTAL CO	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.	DO YOU	極点
	The requirements in this sub-clause are valid for music or video mode only.		-C
	 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. 	P.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 TANK IN	GC*
	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.		P.C.
	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.	T. T	10000000000000000000000000000000000000
手环枪	Zx.2 Equipment requirements No safety provision is required for equipment that complies with the following:	C. FC.	N
	 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 	, GC	GC.
	 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. 	T. E. W.	The state of the s
	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.	NGC	A

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
	 All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is 	Carrie	N
	switched off; and 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	GC BEE	5C*
	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	T. S.	T. I. Market
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always required. NOTE 3 The 20 h listening time is the accumulative listening time,	NGC.	N.C
	 independent how often and how long the personal music player has been switched off. d) have a warning as specified in Zx.3; and e) not exceed the following: equipment provided as a package (player with Its listening device), the acoustic output shall be ≤ 100 dBA measured while playing the fixed "programme simulation 		GC*
	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.	AGC TO A	50
	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.	Carrie NGC	A Marine of the state of the st
	In this case T becomes the duration of the song. NOTE 4 Classical music typically has an average sound pressure (long term LAeq,T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the	CC B T I	GC [®]
	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	S. J. J. J. J. G. C.	The state of the s
	acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dBA.		

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	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
E T. M.	Zx.3 Warning The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: - the symbol of Figure 1 with a minimum height of 5 mm; and - the following wording, or similar:	C THE REAL PROPERTY.	N	
	"To prevent possible hearing damage, do not listen at high volume levels for long periods."	GC B. F. II.	GC *	
	Figure 1 – Warning label (IEC 60417-6044)	10	The total company	
	Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.	J. J. Barrell	NG(
Address of the	Zx.4 Requirements for listening devices (headphones and e	earphones)	5	
N.	Zx.4.1 Wired listening devices with analogue input With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV.	-C***	GN	
	This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control).	T. H. W. W. B. T. H.	1. T. C.C.	
	NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.	NGC	NO.	
CC ¹	Zx.4.2 Wired listening devices with digital input With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA.	C T TO SO	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.).	CETT	GC B	
	NOTE An example of a wired listening device with digital input is a USB headphone.		10000000000000000000000000000000000000	

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Clause	Requirement – Test	Result – Remark	Verdict
, idage		Left: 90.44dBA.	Volume
	 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 	Right: 90.47dBA.	Р
	 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. 	NGC TO THE	GC [®]
9	NOTE An example of a wireless listening device is a Bluetooth headphone.	-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.		Р
	NOTE Test method for wireless equipment provided without listening device should be defined.	-C***	GO.
.7.1	Replace the subclause as follows: Basic requirements	9	700
	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 THE	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;	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	学 环 ***
T. T	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;	3C* NGC	
	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	NGC 1	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.	A CO	1
.7.2	This subclause has been declared 'void'.	型。也是	N
.2.3	Delete the NOTE in Table 3A, and delete also in this table the	and the state of t	CN

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	EN 60950-1		1
Clause	Requirement – Test	Result – Remark	Verdict
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2".	A Townson	手环
	In Table 3B, replace the first four lines by the following: Up to and including 6 0,75 a) Over 6 up to and including 10 (0,75) b) 1,0 Over 10 up to and including 16 (1,0) c) 1,5 In the conditions applicable to Table 3B delete the words "in		N
	some countries" in condition ^{a)} . In NOTE 1, applicable to Table 3B, delete the second sentence.	AGO A	
3.2.5.1 (A2:2013)	NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD	不 整剂	N
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following: Over 10 up to and including 16 1,5 to 2,5 1,5 to 4 Delete the fifth line: conductor sizes for 13 to 16 A	No.	N
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks	GC THE TOTAL OF TH	N
THE CONTRACTOR	arising from physical agents (artifical optical radiation). Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the	P.C.	N
a.C	applicable EU Directive are indicated in the OJEC.	人校下	张
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.	C NOC	N
	Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	CATE.	4G**
Bibliography	Additional EN standards.	100	

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR	
	CORRESPONDING EUROPEAN PUBLICATIONS	

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Clause	Requirement – Test	Result – Remark	Verdict
Jiause	ZB ANNEX (normative) SPECIAL NATIONAL COND	+21/52 +5/1/1/	Verdict
1.2.4.1			4 Th. 10
1.2.4.	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.	Carro	N
1.2.13.14	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.	- T	N 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.	NGC #	S CN
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).	A CO	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"		CON N
1.7.2.1 (A11:2009)	In Sweden: "Apparaten skall anslutas till jordat uttag" In Norway and Sweden, the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:		N N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL COND	DITIONS (EN)	不管
	"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.	No.	E II the mile
	Translation to Norwegian (the Swedish text will also be accepted in Norway):	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."	M. C. E. F. K. M. M.	GC ^{®®}
	Translation to Swedish:	G	
	"Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät alvanisk isolator finnas mellan utrustningen och kabel-TV nätet."	SGC TE	≥
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."		
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.	No.	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
√ C	ZB ANNEX (normative) SPECIAL NATIONAL CON	DITIONS (EN)	不是
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		N N
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.		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 Section of the second	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.	50	N
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.	不是 那	N 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.	P.C.	N.
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.	P.C.	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	乐粒
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 In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998: SEV 5932-2.1998: Plug Type 25, 3L+N+PE 230/400 V, 16 A SEV 5933-2.1998: Plug Type 21, L+N, 250 V, 16A SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A		N
3,2.1.1	In Denmark , supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply		N G
C. 9	cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.		人也
3.2.1.1	In Spain , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994. Supply cords of single-phase equipment having a rated	GC TE TO A GC	N
	current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.		E THE
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994.	NGC #	GC *
	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	T. T. T. T. C.	A Carlos of Carlos

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	EN 60950-1	T	1
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	不恒
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.	P.C.	
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 NOC	N N
3.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.	- Francisco	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.	CC. D	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:	I.H. B. B. B. B. B.	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.		N N N N N N N N N N N N N N N N N N 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.	NGC .	G N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
\C	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	不恒
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	Carried No.	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;	Page 1	
6.1.2.1	• STATIONARY PERMANENTLY CONNECTED EQUIPMENT. In Finland, Norway and Sweden, add the following text	100	N
(A1:2010)	between the first and second paragraph of the compliance clause:		43
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	State of Company	C
	- two layers of thin sheet material, each of which shall pass the electric strength test below, or	CC D	
	- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	不懂!!!	THE PARTY OF THE P
	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	NGC .	NG

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative) SPECIAL NATIONAL CONI	DITIONS (EN)	不恒
等	 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. It is permitted to bridge this insulation with an optocoupler 		N
	complying with 2.10.5.4 b). It is permitted to bridge this insulation with a capacitor	GC.	CO
	complying with EN 60384-14:2005, subclass Y2. A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:		The transfer of
	- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1;	NGC !	NG.
	- the additional testing shall be performed on all the test specimens as described in EN 60384-14:	型 灰鬼型	- B # 3
	- the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	GC 2	OC.
5.1.2.2	In Finland, Norway and Sweden, the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING	ACC TO A STATE OF THE PARTY OF	N
7.2	CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.	The state of the s	The state of the s
学系	In Finland , Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	C. SOC	N
7.3	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	医测 弄玩	N
7.3	In Norway , for installation conditions see EN 60728-11:2005.	c.C	N

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

1.6.2	TABLE: e	lectrical data (in normal co	nditions)	亚环	P
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status
3.7	0.04		0.15	10		Discharge, the EUT was equipped with fully charge battery.
5.0	0.30	0.5	1.50		7M	Charge, the EUT was equipped with fully discharge battery.

2.1.1.5c)1) TABLE	: max. V, A, VA test	(恒	N				
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)			
拉加	T. 电 电平	Charles of Care	20° - 1	- JO" 1			
Note(s):							

2.1.1.5c)2)	TABLE: stored energ	у	不	要 环	C .	N
	Capacitance C (µF)		Vol	tage U (V)		Energy E (J)
- P	-6	~G ⁻	100			地 部
Note(s):	100		1	至 700	不起	The state of Gulbal Co.

2.2	2.2 TABLE: evaluation of voltage limiting comp				uits	N
0		max. voltage (V)	(normal operation)	Voltage Limiting		
Componer	Component (measured between)			Vpeak	Vd.c.	Components
	Jr	A Company	五 大	C- The sure of the	- C	70-

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Fault test performed on voltage limiting components				Voltage mea	asured (V) in S	ELV circuits (V p	eak or V d.c.)
也	C. Tarana	- A Barbard	10				Mir.
Note(s):	0	30			不拉	不性神	不是

2.5 TABLE: limited power source measurements	surement	- 60		Р
Measured Uoc (V) with all load circuits	Isc ((A)	VA	
disconnected:	Meas.	Limit	Meas.	Limit
	五大 花	21 31 som		
Note(s):	3 - C		6	

2.10.2	10.2 TABLE: Working voltage measurement		THE TANK	1 T	N
Location RMS voltage (V)		RMS voltage (V)	Peak voltage (V)	Comme	nts
T Though	# The state of	# Frederice - CC in	- CO		
Note(s):	C	C NO		70	T.

2.10.3 and 2.10.4 TABLE: clearance and creepage distance measurements							
Clearance distance de	cl and creepage cr at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)
1	-	4	5	E 700	F There's	<u></u>	
lin:	2	The second	7 3/1	C	Parameter	4G :-	20

2.10.5	TABLE: distance through insulation	measurements	K 152	E To a constant	N
Distance three	ough insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)
Note(s):		梅潮	不懂。	The state of the s	- 1 · 1

4.3.8	TABLE: Batte	eries	-0	A STATE OF THE STA	CO*	7	O		Р
The tests of 4 not available	.3.8 are appli	cable only v	when approp	riate batter	y data is		1 程 7 7 7		T P
Is it possible t	o install the b	attery in a r	everse polar	ity position	?	Customize used for ba	ed connecto attery pack		N C
The Comment	Non-red	chargeable	batteries			Rechargeab	le batteries	;	
- 0	Disch	arging	Uninten-	Cha	rging	Discha	arging	Reverse	Charging
	Meas. current	Manuf. Specs.	tional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf.S pecs.	Meas. current	Manuf. Specs.

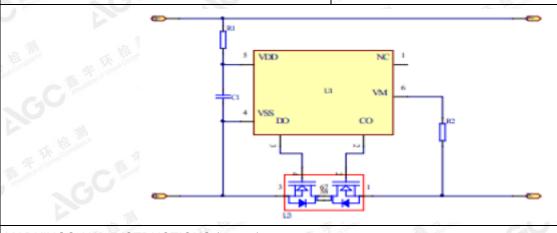
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	Par Ellin	-117.3		-5 100	100 C) C)			
是 E	- Ci [®]	of County Companies	220mA	250mA	45mA	250mA) w
}	5	A	240mA	250mA	60mA	250mA	-Ö	The contract
Test results:								
s	\G				No			Р
ne battery		五 梅 神	不拖	All I	No			P
ame or expu	Ilsion of mo	lten metal	新	- N	No			Р
- Electric strength tests of equipment after completion of tests								
				A 711		(超)		5h Carlo
	A COUNTY	ne battery ame or expulsion of mo	ne battery ame or expulsion of molten metal	s 240mA s he battery ame or expulsion of molten metal	240mA 250mA s ne battery ame or expulsion of molten metal	s No No ame or expulsion of molten metal 240mA 250mA 60mA No	240mA 250mA 60mA 250mA s No ne battery No ame or expulsion of molten metal No	S No No No ame or expulsion of molten metal No

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



MARKINGS AND INSTRUCTIONS (1.7.13)

WARRINGO AND INCTROCTIONS (1.7.13)			
Location of replaceable battery	Non-replaceable battery		1000
Language(s)	1	K 抱 一	The of Gubal
Close to the battery:	# The contract - # T	60	10
In the servicing instructions:			
In the operating instructions:		70	- Tr
Note(s):	The territory	The Management	A The same of

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4.5 TABLE: maximum temperatures Test voltage (V)	
b): Battery discharge only maximum temperature T of part/at: a) b) Button b): Battery discharge only T (°C) 42.4	Р
maximum temperature 1 of part/at: a) b) Button 42.7 42.4	
a) b) Button 42.7 42.4	allowed
	Tmax (°C)
PCB near U1 46.6 44.7	75
	130
Battery 44.0 43.1	Ref.
Internal wire 43.9 42.7	80
Internal enclosure 42.3 42.1	80
External enclosure 42.0 41.0	75
Ambient 40.0 40.0	
	Insulation Class
Note : Having a specified maximum ambient temperature of 40°C	- 10

4.5.5	TABLE: ball pressure test of thermoplastic parts	100		N
_ Serviced	allowed impression diameter (mm):	- 1	1	
Part		Test temperature(°C)		ion diameter (mm)
检测	The state of the s	GO - 10,		
Note(s):	60 00		70	· · · · · · · · · · · · · · · · · · ·

4.7	TABLE: Resistance to	fire	是 环 是	The state of coordinate of the state of the	P
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
	-C - N	J 130		X	
Note(s): Re	fer to table 1.5.1	- Al	A THE	F door	- 5. 7

5.1	TABLE: touch current	measurement			N
Measured	between:		Measured(mA)	Limit(mA)	Comments/conditions
		:10	环境	The same	
Note(s):	环 粒。	T. 10	The state of the s	C. S	Co Yo

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

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lin:	五 社	T. 15	4.C	- C	\$	10	10
Note(s):	C.3		10	100	-ml		300

5.3	TABLE: fault condition tests						Р
AS.	ambient temperature (°C):					24.3	
E F WOOD	rated markings of power supply:						
Component no.		Fault	Test voltage (V)	Test time	Fuse no.	Result	
Battery	The s	Output,S-C	A Comment	10min	C 3 3	Unit shutdown immediately. No hazards.	
Battery	tion of Giops	Overcharge, B- and P-, S-C	5.0	7h	J	No hazards. Battery enclosure: 26.6°C	
Battery	-TILL	Discharge, B- and P-, S-C	- 70	2h	环境	No hazards. Battery enclosure: 25.0°C	
U2		Pin 3-4, S-C	5.0	2h		Unit shutdown immediately. No hazards.	
Speaker S-C		}	10min		Speaker not work, no damage and hazards.		
Fault: S-C =	short	circuit	-71	- 70	五五	The County of the County	C

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Attachment A Photos of product



Fig.1 - overview



Fig.2 - overview

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Fig.3 - partview

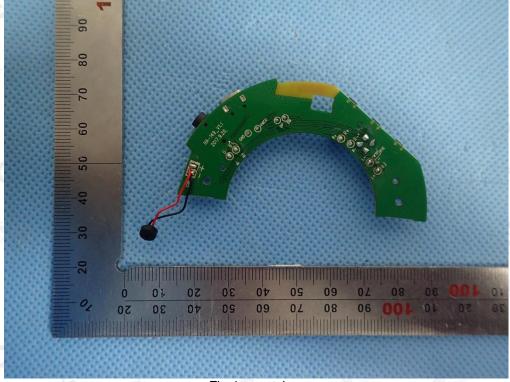


Fig.4 - partview

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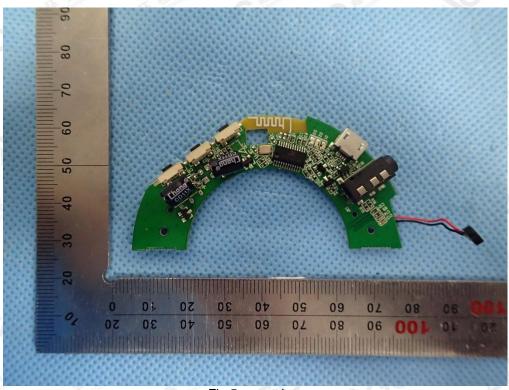


Fig.5 - partview

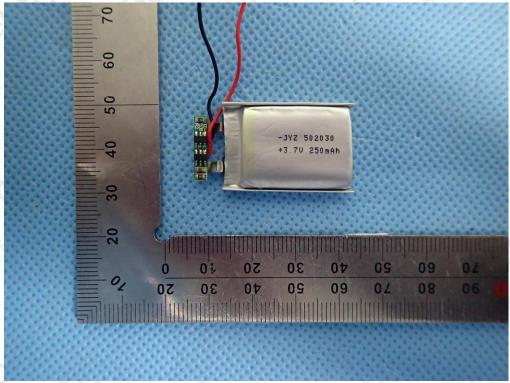
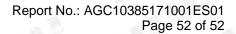


Fig.6 - battery

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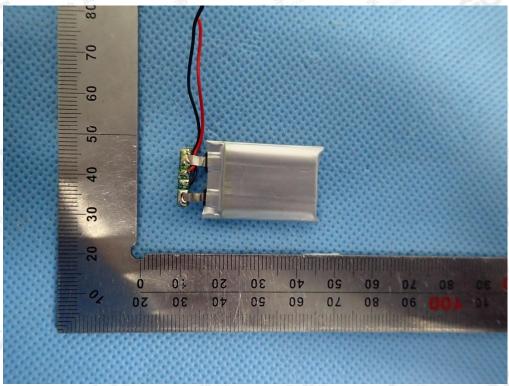


Fig.7 - battery

---- END OF REPORT----

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