

Safety Test Report

Report No.:AGC03946180505ES01

PRODUCT DESIGNATION: Wireless charging mobile power bank

BRAND NAME : N/A

MODEL NAME :

CLIENT :

DATE OF ISSUE: June. 05, 2018

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

REPORT VERSION: V1.0

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

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TEST REPORT

EN 60950-1

Inform	nation technology Part 1: General re	equipment-Safety-	
Report Reference No		•	The Kill Compliance
Tested by(+ signature)	Albert Liang	Albert. Irang	
Reviewed by (+ signature):	Jenny Li	Jemyli	
Approved by (+signature):	Matte He (Authorized Officer)	Jemyli Jemyli mette He	
Date of issue	June.05, 2018	70	
Contents	Total 52 pages.		
Testing laboratory	不 抱 那	S Standard Comment	10
Name:	Attestation of Global C	Compliance (Shenzhen) Co., Ltd.	
Address	2/F., Building 2, No.1- Gushu, Xixiang, Bao'a	No.4, Chaxi Sanwei Technical Industrial Par an District, Shenzhen, Guangdong, China	rk,
Testing location:	Same as above.		
Manufacturer	© # January Global	The second second	
Name:			
Address:			
Factory	刑 Figure Com	© The Codemic Control of the Codemic C	G Allest
Name			
Address:			lianc Mill
Test specification	:111)	1 The State of the	on of Globs
Standard:	EN 60950-1:2006+A1	1:2009+A1:2010+A12:2011+A2:2013	
Test procedure:	Type test		
Procedure deviation:			
Non-standard test method	N/A		
Test Report Form/blank test report	(8) The annual Company	C CO	
Test Report Form No	AGC60950A8		
Test Report Form(s) Originator:	AGC		
Master TRF	Dated 2017-01		
: IIII	(1000) (1000)		

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Test item	The Manual Control of the party
Product designation Wire	eless charging mobile power bank
Brandname N/A	
Test model	
Series model N/A	The state of the s
Rating(s)	ro USB input : 5Vdc, 2A ; TYPE-C input: 5Vdc, 2.1A 3 output: 5Vdc, 2 A; Wireless output: 5W
Particulars	Marian San Marian Company
Equipment mobility	
Connection to the mains	
	permanent connection
T. T. Schmings	detachable power supply cord
8 # Hond Color 8 # Hond Color	☐non-detachable power supply cord ☑not directly connected to the mains
Operating condition	
Operating condition	☐rated operating/ resting time:
Access location	Operator accessible
E The State of the	☐restricted access location
Over voltage category(OVC)	
Mains supply tolerance(%) or absolute mair supplyvalues	
Tested for IT power systems	: □Yes ⊠No
IT testing, phase-phase voltage(V)	
Class of Equipment	
Considered current rating of protective devorthe building installation (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)	: <1Kg
Test case verdicts	
Test case does not apply to the test object.	: N (/A)
Test item does meet the requirement	P (ass)
Test item does not meet the requirement	F (ail)
Testing	在
Date of receipt of test item	: May.17, 2018
Date(s) of performance of test	: May.19–May.29, 2018

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Attachment

Attachment A..... Photos of product

General remarks

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

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

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

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

Report Revise Re	cord:	,C		
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		June.05, 2018	Valid	Original report

General product information

The product is used for charging mobile or similar information technology equipment.

The product is supplied by internal Li-ion battery which can be charged from micro USB or type C port that considered complying with the LPS and SELV requirment of this standard; Therefore the product's circuit considered as Class III of 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 40°C.

The original test report Ref. No. AGC04094180503ES01 (dated 2018-06-04), was modified on 2018-06-05 to change the applicant, manufacturer, product name and model name, no further testing necessary.

Summary of testing

The test item passed.

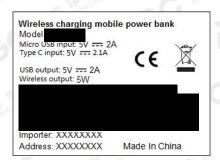
The results spown this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 40°C, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.ago.go.tt.com.

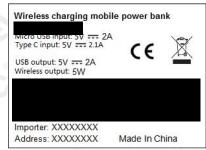


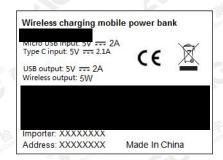
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Copy of marking plates

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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Clause	Requirement – Test	Result – Remark	Verdic
7M)	The state of the s	- CO - CO - CO	30
1 4	GENERAL		Р
CO THE LOW			The Kalcomolic
1.5	Components	K British K. T.	on of Give P
1.5.1	General	© Management	Р
70	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
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.	N
1.5.4	Transformers	No transformers	N
1.5.5	Interconnecting cables	, CO (CO)	Р
1.5.6	Capacitors bridging insulation	No such capacitor.	N
1.5.7	Resistors bridging insulation		Р
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	Functional only	P
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable		F of GoN
1.5.8	Components in equipment for IT power systems	C Manufacture C	N
1.5.9	Surge suppressors	No such parts.	N
1.5.9.1	General	10000000000000000000000000000000000000	N
1.5.9.2	Protection of VDRs	I I de la companya de	N
1.5.9.3	Bridging of functional insulation by a VDR	· * · · · · · · · · · · · · · · · · · ·	N
1.5.9.4	Bridging of basic insulation by a VDR	1 10	N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N
line	The state of the s	C Finance	20
1.6	Power interface	00 00	P

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AC power distribution systems

1.6.1

No direct mains connection.



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	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
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 N

1.7	Marking and instructions		Р
1.7.1	Power rating	See below	Р
10	Rated voltage(s) or voltage range(s) (V):	See marking plate	
	Symbol for nature of supply, for d.c. only:	See marking plate	
® 45±	Rated frequency or rated frequency range (Hz):	· GO D	
	Rated current (mA or A)	See marking plate	
1.7.1.2	Identification markings	The state of the s	Р
- Fills	Manufacturer's name or trademark or identification mark	See marking plate	
(S) Alle	Type/model or type reference	See marking plate	
a.C **	Symbol for Class II equipment only:	X Company	
G	Other marking and symbols:	See marking plate.	
1.7.1.3	Use of graphical symbols	100	Р
1.7.2	Safety instructions and marking	Provided.	Р
1.7.2.1	General	See below.	Р
1.7.2.2	Disconnect devices	No such devices	N
1.7.2.3	Overcurrent protective device		N
1.7.2.4	IT power distribution systems		N
1.7.2.5	Operator access with a tool	- III	N
1.7.2.6	Ozone	The state of the s	N
1.7.3	Short duty cycles	Equipmentis designed forcontinuous operation.	N
1.7.4	Supply voltage adjustment	No such devices used	N
	Methods and means of adjustment; reference to installation instructions:	Office of the state of the stat	CN
1.7.5	Power outlets on the equipment:	No such outlet	N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	· · · · · · · · · · · · · · · · · · ·	M N
1.7.7	Wiring terminals	So the state of th	N
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment, no protective earthing	N

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
1.7.7.2	Terminal for a.c. mains supply conductors	CO CO .	N		
1.7.7.3	Terminals for d.c. mains supply conductors	F 50	N 🚮		
1.7.8	Controls and indicators		Th P		
1.7.8.1	Identification, location and marking	Closed their control	on of Com		
1.7.8.2	Colours	The colours used for LED are indicating function. No safety consideration.	P		
1.7.8.3	Symbols according to IEC 60417	The state of the s	o N		
1.7.8.4	Markings using figures	Not applicable.	N		
1.7.9	Isolation of multiple power sources	No direct connection to mainssupply	N		
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices used	N N		
1.7.11	Durability	The marking withstands required tests.	Р		
1.7.12	Removable parts	No such parts.	N		
1.7.13	Replaceable batteries	Service replaceble battery	P		
CC TO	Language(s)	English			
1.7.14	Equipment for restricted access locations:	6.7	Ν		

2 Sound Global Ca	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy hazards	No hazardous parts in operatoraccess areas.	Р
2.1.1	Protection in operator access areas	© 4%	Р
2.1.1.1	Access to energized parts	No energized parts.	Р
C PATRON	Test by inspection		
9	Test with test finger(Figure 2A)	K Barrier S.	
1111:	Test with test pin (Figure 2B)	(a) Sill company of the Company	
Compliance	Test with test probe (Figure 2C)	CO P	
~ C	0 00		
2.1.1.2	Battery compartments	The state of the s	N
2.1.1.3	Access to ELV wiring	Barrell C	N
不是 Harris Cobal	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation		
2.1.1.4	Access to hazardous voltage circuit wiring	A The Company The The Control	N
2.1.1.5	Energy hazards	See appended table 2.1.1.5	P
2.1.1.6	Manual controls	190	N
2.1.1.7	Discharge of capacitors in equipment	No primary circuit.	N

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	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
1111	Time-constant (s); measured voltage (V)	CO CO .		
2.1.1.8	Energy hazards – d.c. mains supply	Not directly connect to mains supply	N and	
A statio	a)Capacitor connected to the d.c. mains supply:	-all	JA N	
	b)Internal battery connected to the d.c. mains supply	A SECTION OF THE PROPERTY OF T	onot on 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	T. B. Land	O 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:	A some	₹ N

2.3	TNV circuits	7.40	N
2.3.1	Limits	No TNV circuits.	N
	Type of TNV circuits		N
2.3.2	Separation from other circuits and from accessible parts		N Ame
2.3.2.1	General requirements		N 🧌
2.3.2.2	Protection by basic insulation	2000	N
2.3.2.3	Protection by earthing	A Companie	ation of N
2.3.2.4	Protection by other constructions	Co Ministration CO	N
2.3.3	Separation from hazardous voltages	100	N
~G	Insulation employed:	10000000000000000000000000000000000000	N %
2.3.4	Connection of TNV circuits to other circuits	The Company of the State of Company	N
nES.	Insulation employed	- G ***********************************	N
2.3.5	Test for operating voltages generated externally	100	N

2.4	Limited current circuits	For a control of the	N
2.4.1	General requirements	No limited current circuits to be evaluated.	N
2.4.2	Limit values		N

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
11/1/2 TIM	Frequency (Hz)	CO CO .	N		
com de	Measured current (mA)		N 📶		
A datio	Measured voltage (V)		Jr N		
30	Measured capacitance (nF or μF)	Barrier S. S. Santana	N		
2.4.3	Connection of limited current circuits to other circuits	3 mm	N		

2.5	Limited power sources	The Bankon The Target State of the State of	P
	a)Inherently limited output	Marina data O Marina da O	O N
8 4	b)Impedance limited output	" CO D	N
GC in	c)Regulating network limited output under normal operating and single fault condition	下 整 测	P
	d)Overcurrent protective device limited output	® # Jonal Golden @ # January Control Control	N
TIII Compliance	Max. output voltage (V), max. output current (A), max. apparent power (VA)	See appended table 2.5	
8 \$	Current rating of overcurrent protective device (A)	E 162 1000	N
G	Use of integrated circuit (IC) current limited	GODAN (8) #	Hallon of N

2.6	Provisions for earthing and bonding		N
2.6.1	Protective earthing	Class III equipment.	N
2.6.2	Functional earthing	3K 350° 0 6 6 7 60°	N
	Use of symbol for functional earthing	@ ##	N
2.6.3	Protective earthing and protective bonding conductors		N M
2.6.3.1	General	A Paire O. A.	F _{ol} c∘N
2.6.3.2	Size of protective earthing conductors	State Comment of the State of t	N
to millanes	Rated current (A), cross-sectional area (mm²), AWG	CC - NO	N
2.6.3.3	Size of protective bonding conductors	10000000000000000000000000000000000000	N %
	Rated current (A), cross-sectional area (mm²), AWG	Manufacture Committee Comm	CN
2.6.3.4	Resistance of earthing conductors and their terminations, resistance(Ω), voltage drop(V),test current (A), duration(min)	, NO.	N Familiare
2.6.3.5	Colour of insulation	es (S. Marian) (S. Marian) (S. Marian)	N_
2.6.4	Terminals	-C ** CO *	N
2.6.4.1	General		N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
2.6.4.2	Protective earthing and bonding terminals	CO CO .	N
© \$\$	Rated current (A), type and nominal thread diameter (mm)		N I
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		ttestation of Globalic
2.6.5	Integrity of protective earthing		N
2.6.5.1	Interconnection of equipment		N
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	T. 18 T.	N Prince and the
2.6.5.3	Disconnection of protective earth		N
2.6.5.4	Parts that can be removed by an operator		N
2.6.5.5	Parts removed during servicing		N
2.6.5.6	Corrosion resistance	The state of the s	Dal N
2.6.5.7	Screws for protective bonding	C. T. C.C.	N
2.6.5.8	Reliance on telecommunication network or cable distribution system	(C)	N

2.7	.7 Overcurrent and earth fault protection in primary circuits		
2.7.1	Basic requirements Supplied by SELV		N
The station of Global	Instructions when protection relies on building installation		N
2.7.2	Faults not covered in 5.3.7	Robal Co. 8 Mary and a second	N
2.7.3	Short-circuit backup protection	_ T	N
2.7.4	Number and location of protective devices:		N
2.7.5	Protection by several devices	2001	N
2.7.6	Warning to service personnel	K The state of the	N

2.8	Safety interlocks	100	N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	The State Company	N
2.8.3	Inadvertent reactivation		N
2.8.4	Fail-safe operation	00	N
Altestation	Protection against extreme hazard	投 测	Tomorrow N
2.8.5	Moving parts	E To a Second Comment of the Comment	N_
2.8.6	Overriding	-C	N
2.8.7	Switches and relays		N

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Clause	Requirement – Test	Result – Remark	Verdict
2.8.7.1	Contact gaps (mm)	CO CO .	N
2.8.7.2	Overload test		N 📶
2.8.7.3	Endurance test		Th Name
2.8.7.4	Electric strength test	Barrier Transfer 0 1	on of Gue
2.8.8	Mechanical actuators	** 3° \$	N

2.9	Electrical insulation		N a
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic materials are not used.	N
2.9.2	Humidity conditioning		Ν
	Humidity (%),temperature (°C)		N
2.9.3	Grade of insulation	大龙 五天	moliance N
2.9.4	Separation from hazardous voltages	® ## January Colonia C	N
- FIET	Method(s) used:	CO - CO	N

2.10	Clearances, creepage distances and distances	through insulation	N
2.10.1	General	Functional insulation only.	N
恒	Frequency		N
To Clobal College	Pollution degrees		N
testatu	Reduced values for functional insulation		N
	Intervening unconnected conductive parts	Separation (S. M. Lauren)	N
	Insulation with varying dimensions		N
® 45.	Special separation requirements		N 🧌
-G	Insulation in circuits generating starting pulses	51119	N
2.10.2	Determination of working voltage	K Tomboo	ation of N
2.10.3	Clearances	C. France CO	N
2.10.3.1	General	7G0	N
2.10.3.2	Mains transient voltages	10000000000000000000000000000000000000	N %
	a)AC mains supply	The state of the s	N
43	b)Earthed d.c. mains supplies	A CO FORM	N
T Toolage	c)Unearthed d.c. main supplies	100	N
Altestator.	d)Battery operation	10000000000000000000000000000000000000	I District N
2.10.3.3	Clearances in primary circuits	S SE STATE OF STATE O	N
2.10.3.4	Clearances in secondary circuits	-C - CC	N
2.10.3.5	Clearances incircuits having starting pulses		N

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Clause	Requirement – Test	Result – Remark	Verdict
2.10.3.6	Transients from a.c. mains supply	60 60°	N
2.10.3.7	Transients from d.c. mains supply	10	N
2.10.3.8	Transients from telecommunication networks and cable distribution systems	12 The Office of	Th N
2.10.3.9	Measurement of transient voltage levels	and Comment of the Co	N
4	a)Transients from a mains supply	3	N
titestatio"	For a.c. mains supply		N
\ U	For d.c. mains supply:	不是,	N
	b)Transients from	Marian di Cadama (S. Marian di Cadama)	U N
2.10.4	Creepage distances	- CO D	N
2.10.4.1	General	:111	₩ N
2.10.4.2	Material group and comparative tracking index	T. T. Samuelle	N
	CTI tests	© Manufacture Company	N
2.10.4.3	Minimum creepage distances	60	N
2.10.5	Solid insulation	- TIM	N
2.10.5.1	General	A Company	N
2.10.5.2	Distances through insulation		N
2.10.5.3	Insulation compound as solid insulation	7.00	N
2.10.5.4	Semiconductor device		N
2.10.5.5	Cemented joints		N
2.10.5.6	Thin sheet material - General	(S) Affin and Colombia	N
2.10.5.7	Separable thin sheet material		N
® Affectati	Number or layers(pcs)		N
2.10.5.8	Non-separable thin sheet material	A TO SERVICE OF THE S	N N
2.10.5.9	Thin sheet material – standard test procedure	State Comments of the State of	N
AST THE	Electric strength test	2.C - NO	N
2.10.5.10	Thin sheet material – alternative test procedure	10	N
10	Electric strength test	The state of the s	N
2.10.5.11	Insulation in wound components	S Figure of Colonia	N
2.10.5.12	Wire in wound components	CO E	N
The latter of Chopai C	Working voltage	-all	_M N
Attes	a)Basic insulation not under stress	The state of the s	N
	b)Basic, supplementary, reinforced insulation:	S S S S S S S S S S S S S S S S S S S	N
-5111/1	c)Compliance with Annex U	C.C	N

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Clause	Requirement – Test	Result – Remark	Verdict
Clause	100 300 300 300 300 300 300 300 300 300	Result – Remark	
Compliance	Two wires in contact inside wound component; angle between 45° and 90°	100 N	N
2.10.5.13	Wire with solvent-based enamel in wound components		N. The
	Electric strength test	and Committee Control of the Control	N
一下 拉	Routine test		N
2.10.5.14	Additional insulation in wound components		N
- 7.3	Working voltage		N S
	-basic insulation not under stress	- F Action Comments (S. M. Annual Comments)	N
-	-Supplementary, reinforced insulation	** CC **	N
2.10.6	Construction of printed boards		, N
2.10.6.1	Uncoated printed boards	下海,100	nollance N
2.10.6.2	Coated printed boards	(a) The standard (b) The standard (c)	N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	CC CC	N
2.10.6.4	Insulation between conductors on different layers of a printed board	A to the same	N
	Distance through insulation		N
不 拉	Number of insulation layers(pcs)	- 100	N
2.10.7	Component external terminations		N
2.10.8	Tests on coated printed boards and coated components	11 Tr. 10 Co. 10	N
2.10.8.1	Sample preparation and preliminary inspection		N
2.10.8.2	Thermal conditioning		N
2.10.8.3	Electric strength test	2000 Pr. V.o.	N
2.10.8.4	Abrasion resistance test	K Barrell Land Comment Comment	N
2.10.9	Thermal cycling		N
2.10.10	Test for Pollution Degree 1 environment and insulating compound	Son In Indian	N
2.10.11	Test for semiconductor devices and cemented joints	OM TO THE WOOD OF	N
2.10.12	Enclosed and sealed parts	20	N

3	WIRING, CONNECTIONS AND SUPPLY	lin:	The Completion	不	Р
3.1	General	Compliance	® Francisco	® Mestation of C	Р
3.1.1	Current rating and overcurrent protection	inte	equate cross sectiona rnal wiring. No intern nary power distribution	al wire for	Р

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Clause	Requirement – Test	Result – Remark	Verdict		
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	TI P		
3.1.4	Insulation of conductors	The state of the s	P		
3.1.5	Beads and ceramic insulators	No such insulators provided.	N		
3.1.6	Screws for electrical contact pressure	No electrical contact pressure by screwed connections.	N		
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	O N A		
3.1.8	Self-tapping and spaced thread screws	Thread-cutting or space thread screws are not used for electrical connections.	N		
3.1.9	Termination of conductors		P		
	10 N pull test	No break away	Р		
3.1.10	Sleeving on wiring	No sleeving used to provide supplementary insulation	N		

3.2	Connection to a mains supply	K 15 minutes	N
3.2.1	Means of connection	Class III equipment, not directly connected to mains	N
3.2.1.1	Connection to an a.c. mains supply	190 10	N
3.2.1.2	Connection to a d.c. mains supply		N
3.2.2	Multiple supply connections		N
3.2.3	Permanently connected equipment	(a) The state of t	N
® # F	Number of conductors, diameter (mm) of cable and conduits		
3.2.4	Appliance inlets	7000	N
3.2.5	Power supply cords	K Emilion	M N
3.2.5.1	AC power supply cords	a filtration of C	N
Compliance	Type	100 D	
NG.	Rated current (A), cross-sectional area (mm²), AWG	下 整 测	
3.2.5.2	DC power supply cords	3 Marting discourse (S) Marting discourse (S	N
3.2.6	Cord anchorages and strain relief	, - CO D	N
The station of Glow	Mass of equipment (kg), pull (N)		
18	Longitudinal displacement (mm)	A TAMES OF THE PARTY OF THE PAR	
3.2.7	Protection against mechanical damage		N
3.2.8	Cord guards	60 10	N
© 4	D (mm); test mass (g):	1	

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377		:1111	1117-
3	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
是 聊	Radius of curvature of cord (mm)	20 CO	
3.2.9	Supply wiring space		N

3.3	Wiring terminals for connection of external cond	uctors	on of Care N
3.3.1	Wiring terminals		N
3.3.2	Connection of non-detachable power supply cords		N
3.3.3	Screw terminals	The Balance The Theorem	N
3.3.4	Conductor sizes to be connected	E The color of the	◯ N
© Allest	Rated current (A), cord/cable type, cross-sectional area (mm²)	NGO AND	
3.3.5	Wiring terminal sizes	下拉········ 环节	ngliance N
	Rated current (A), type and nominal thread diameter (mm)	C. Marie C. C. Marie C. C. C. Marie C.	
3.3.6	Wiring terminals design	0	N
3.3.7	Grouping of wiring terminals	E 182 1111	N
3.3.8	Stranded wire	Gidball C	N N

3.4	Disconnection from the mains supply		N
3.4.1	General requirement	Class III equipmen, not directly connected to mains.	N
3.4.2	Disconnect devices	S Standard	N
3.4.3	Permanently connected equipment		N
3.4.4	Parts which remain energized		N 🧌
3.4.5	Switches in flexible cords	200	N
3.4.6	Single-phase equipment and d.c. equipment	The Standard	N
3.4.7	Three-phase equipment		N
3.4.8	Switches as disconnect devices	700	N
3.4.9	Plugs as disconnect devices	10000000000000000000000000000000000000	N %
3.4.10	Interconnected equipment	S. F. Soldier	N trestatus
3.4.11	Multiple power sources	- G	N

3.5	Interconnection of equipment		P
3.5.1	General requirements	To a find the second se	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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and The half				ettl
		EN 60950-1		
Clause	Requirement – Test		Result – Remark	Verdict
3.5.4	Data ports for additional equipment	Tor Global Corto	20 CO	Р
1111.				

4	PHYSICAL REQUIREMENTS			Th P	
4.1	Stability	The Compliance	Kampilance	The Compliance	® Allestonoton N
T. X	Angle of 10°	C State of Good Company	4 C 000°	Antequiton of	N
· 学	Test: force (N)				N

4.2	Mechanical strength		Р
4.2.1	General	See below	Р
8 %	Rack-mounted equipment.	100	N
4.2.2	Steady force test, 10 N	Apply to internal component	Р
4.2.3	Steady force test, 30 N	B A Total Color	N.
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	Р
4.2.5	Impact test	THE STATE OF THE S	N
4.C	Fall test	K. M. Communication	N
G	Swing test	- 6.3	N
4.2.6	Drop test; height(m)	1m.	Р
4.2.7	Stress relief test	71°C, 7h, no damage and no hazards.	Р
4.2.8	Cathode ray tubes	No cathode ray tube.	N
	Picture tube separately certified	· 4 3 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	N
4.2.9	High pressure lamps	No high pressure lamp	N
4.2.10	Wall or ceiling mounted equipment; force (N):		N

4.3	Design and construction	Golden Carlotte Carlo	Р
4.3.1	Edges and corners	Edges and corners are rounded and smooth.	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	CG N	N
4.3.5	Connection of plugs and sockets		, N
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	Strongeres N
	Torque	S SE STORY OF STREET OF STREET OF STREET	N
A TIM	Compliance with the relevant mains plug standard	CC SCC	N

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	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
4.3.7	Heating elements in earthed equipment	No heating elements.	N	
4.3.8	Batteries		Р	
A statio	-Overcharging of a rechargeable battery	- cul	In Pomolan	
30	-Unintentional charging of a non-rechargeable battery	rechargeable battery	N	
- # - The	-Reverse charging of a rechargeable battery	Impossible	N	
Attestatio	-Excessive discharging rate for any battery		Р	
4.3.9	Oil and grease	No oil and grease.	N 3	
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)	S SE ANDONE COORS	N	
AMI.	Flash point (°C)	CO - CO	N	
4.3.13	Radiation; type of radiation		P	
4.3.13.1	General		P. Dan Corn	
4.3.13.2	Ionizing radiation	No ionizing radiation	N	
大松那	Measured radiation (pA/kg)			
Hand Clopal Co.	Measured high-voltage (kV)			
de State	Measured focus voltage (kV)			
	CRT markings	S THE METERS OF THE PROPERTY O		
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	N	
C Marie tello	Part, property, retention after test, flammability classification		N	
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	E The State of the	ation of Good	
4.3.13.5	Lasers (including laser diodes) and LEDs	State Comment of the	Р	
4.3.13.5.1	Lasers (including laser diodes)	- GO E	N	
	Laser class			
4.3.13.5.2	Light emitting diodes (LEDs)	LEDs for indication only		
4.3.13.6	Other types	3 A Maria Company	N	

4.4	Protection against hazardous moving parts		N
4.4.1	General	No hazardous moving parts.	N
4.4.2	Protection in operator access areas	C Market C C Market	N
do Compliance	Household and home/office document/media shredders	SO NO	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
4.4.3	Protection in restricted access locations	20 20 1	N
4.4.4	Protection in service access areas		N and
4.4.5	Protection against moving fan blades	· ·	√ N
4.4.5.1	General	The state of the s	on of O
~ 检	Not considered to cause pain or injury. a):	200	N
#	Is considered to cause pain, not injury. b):	9	N
THOS.	Considered to cause injury. c):	- 3	N
4.4.5.2	Protection for users	The Complete	N
	Use of symbol or warning		N
4.4.5.3	Protection for service persons	100	N
	Use of symbol or warning		N
		7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	90

4.5	Thermal requirements	C	Р
4.5.1	General	100	Р
4.5.2	Temperature tests	(see appended table 4.5)	P
Co	Normal load condition per Annex L	Golden Co.	
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 athazardous voltage are directly mounted.	N

4.6	Openings in enclosures		Р
4.6.1	Top and side openings	No openings	Р
	Dimensions (mm)	· 投 和 · · · · · · · · · · · · · · · · ·	
4.6.2	Bottoms of fire enclosures	© Marting of Control	Р
KI THE	Construction of the bottom	No openings	
4.6.3	Doors or covers in fire enclosures	No doors and covers	N
4.6.4	Openings in transportable equipment	No openings	Parestalic
4.6.4.1	Constructional design measures	3 Figure of Co	N
不	Dimensions(mm)	, CO D	N
4.6.4.2	Evaluation measures for larger openings	700	N
4.6.4.3	Use of metallized parts	No such part	N
4.6.5	Adhesives for constructional purposes	No adhesives for constructional purpose.	N
	Conditioning temperature (°C), time (weeks):	10-	

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
711	12 1 San	- CO - CO - C	30
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.	Th Property
	Method 1, selection and application of components wiring and materials	Method 1 used	P
A STATE OF THE STA	Method 2, application of all of simulated fault condition tests		N
4.7.2	Conditions for a fire enclosure	See appended table 1.5.1	P
4.7.2.1	Parts requiring a fire enclosure	Li-ion battery required fire enclosure	₩ P
4.7.2.2	Parts not requiring a fire enclosure	1 " \GU	N
4.7.3	Materials	W	₩ P
4.7.3.1	General	PCB rated V-0	Р
4.7.3.2	Materials for fire enclosures		N
4.7.3.3	Materials for components and other parts outside fire enclosures	CO YOU	N
4.7.3.4	Materials for components and other parts inside fire enclosures	See appended table 1.5.1	Pacon
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	N
5.1.2	Equipment under test (EUT)	N
5.1.2.1	Single connection to an a.c. mains supply	© A N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	N
5.1.3	Test circuit	N
5.1.4	Application of measuring instrument	N
5.1.5	Test procedure	N
5.1.6	Test measurements	The Tanger N
	Test voltage (V)	M N
litte:	Measured touch current (mA):	N
Compliance	Max. allowed touch current (mA):	N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdic
7 TILL	Measured protective conductor current (mA):	70 70	N
County	Max. allowed protective conductor current (mA) .:		N
5.1.7	Equipment with touch current exceeding 3.5 mA:	and a	√ N
5.1.7.1	General	B. The State of th	N
5.1.7.2	Simultaneous multiple connections to the supply	- CO	N
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks		N
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system	A CO MAN ACC	N
C M	Test voltage (V)	in the second	₩ N
	Measured touch current (mA)	The Management of The State of	N
	Max. allowed touch current (mA)	© All productions of the second of the secon	N
5.1.8.2	Summation of touch currents from telecommunication networks	GO YOU	N
-6	a)EUT with earthed telecommunication ports:	K Banana	" N
6	b)EUT whose telecommunication ports have no reference to protective earth	CO	N

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

5.3	Abnormal operating and fault conditions		
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	Р
5.3.2	Motors	No motor used	N
5.3.3	Transformers	No transformers	N
5.3.4	Functional insulation	See appended table 5.3. Complies with c)	O P
5.3.5	Electromechanical components	3 Martin d'Con C	N
5.3.6	Audio amplifiers in ITE	1 100	N
5.3.7	Simulation of faults	Result see appended table 5.3.	P
5.3.8	Unattended equipment	The formation of the state of t	N
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no moltenmaterial emitted, no deformationof enclosure	Р
5.3.9.1	During the tests	No hazards.	P

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and the half				2000	ll).
Ę		EN 60950-1			
Clause	Requirement – Test	Re	esult – Remark		Verdict
5.3.9.2	After the tests	No.	o fire, no danger.	10 ×	Р

6	CONNECTION TO TELECOMMUNICATION NETWORKS		N
6.1	Protection of telecommunication network service pequipment connected to the network, from hazards		N
6.1.1	Protection from hazardous voltages	2 - 10	N
6.1.2	Separation of the telecommunication network from earth		N
6.1.2.1	Requirements	The Ballines The Tomate	O N
	Test voltage (V)	Manual Comment of the	
® 4%	Current in the test circuit (mA)	. CO D	
6.1.2.2	Exclusions:		₩ N

6.2	Protection of equipment users from overvoltages on telecommunication networks		
6.2.1	Separation requirements	GC 100	N
6.2.2	Electric strength test procedure	- All	N
6.2.2.1	Impulse test	A contract (6) All	₹.N
6.2.2.2	Steady-state test	No insulation breakdown	N
6.2.2.3	Compliance criteria	Compliance	N

6.3	Protection of the telecommunication wiring system from overheating			N
	Max. output current (A)	® # Jone's Clobal Co	Missalon	
	Current limiting method			

7	CONNECTION TO CABLE DISTRIBUTION SYST	EMS	, N
7.1	General	And Service Control of the Service Control of	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	NGC TO THE	N
7.3	Protection of equipment users from overvoltages on the cable distribution system	S A Martin of Court Co.	N
7.4	Insulation between primary circuits and cable distribution systems		N N
7.4.1	General	The state of the s	N
7.4.2	Voltage surge test	- C	N
7.4.3	Impulse test	60 10	N
- ACM			L

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Clause	Requirement – Test	Result – Remark	Verdict
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT	PW 2/10*	N
<u>^</u> A.1	Flammability test for fire enclosures of movable ed		
A. I ® 癫	exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		
A.1.1	Samples	E THE THE STATE OF THE PERSON	
* N	Wall thickness (mm):	Substantial CO P	
A.1.2	Conditioning of samples; temperature (°C):	2	N
A.1.3	Mounting of samples		N
A.1.4	Test flame (see IEC 60695-11-3)	The Marie The The Tenter	N
	Flame A, B, C or D:	(S) All and address (S) All and a second (S)	
A.1.5	Test procedure) - CO	N
A.1.6	Compliance criteria	:111	₩ N
9	Sample 1 burning time (s):	The state of the s	
	Sample 2 burning time (s)	Company of the state of the sta	
2 7M	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 to
A.2.1	Samples, material	CU CO	
The Res	Wall thickness (mm)		
A.2.2	Conditioning of samples		N
A.2.3	Mounting of samples	3K 15000 (0) ## "34000"	N
A.2.4	Test flame (see IEC 60695-11-4)	® # Mondage	N
	Flame A, B or C		
A.2.5	Test procedure		N
A.2.6	Compliance criteria	THE THE THE COMMENTS OF	Androi N
an)	Sample 1 burning time (s)	O Marine CO	
10 miles	Sample 2 burning time (s):	CO.	
Dall Co.	Sample 3 burning time (s):	- in	
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8	O M. T. of Control of the Control of	N
T. 1	Sample 1 burning time (s)		
類 Julion of Global	Sample 2 burning time (s)	lim	
Alles	Sample 3 burning time (s)	all IX Manufacture IN	
A.3	Hot flaming oil test (see 4.6.2)	of the state of th	N
A.3.1	Mounting of samples	60 - 60	N
A.3.2	Test procedure		N

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and Manager				200	Illine
4		EN 60950-1			
Clause	Requirement – Test		Result – Remarl	k	Verdict
A.3.3	Compliance criterion	A THE STORY OF THE STORY	- 40	60 ×	N

BO	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	CONDITIONS (see 4.7.2.2 and	Th N malana
B.1	General requirements	Committee of the second of the	N
_ #	Position		
Attestatio*	Manufacturer		
	Type:	不是 不	
	Rated values	3 Francisco (State of Control of	
B.2	Test conditions	, - GO D	N
B.3	Maximum temperatures	700	N
B.4	Running overload test	A	o de Compilia
B.5	Locked-rotor overload test		N
3 July 2	Test duration (days)	60 100	
(e) A	Electric strength test: test voltage (V)	711	
B.6	Running overload test for d.c. motors in secondary circuits	A decommend	N N
B.6.1	General	- CO - CO	N
B.6.2	Test procedure		N
B.6.3	Alternative test procedure		N
B.6.4	Electric strength test; test voltage (V)	S Manufacture (S)	N
B.7	Locked-rotor overload test for d.c. motors in secon	dary circuits	N
B.7.1	Test procedure		N 🏨
B.7.2	Alternative test procedure; test time (h)	200	N
B.7.3	Electric strength test	K Common E Kangaran	lestello ^{n ol} N
B.8	Test for motors with capacitors		N
B.9	Test for three-phase motors	100	N
B.10	Test for series motors		N %
	Operating voltage (V):	The Committee of the Co	

C F Thomas	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.	3)	N
Atlestation	Position	No transformers	
	Manufacturer	All State of the s	
-700	Type:	-0 -0	
Compliance	Rated values:		

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
1111	Method of protection	- CO - CO -	
C.1	Overload test		N and
C.2	Insulation		J. N. Samouro
	Protection from displacement of windings:	K Barrer S.	Station of Com. N

D	ANNEX D, MEASURING INSTRUMENTS F	FOR TOUCH-CURRENT TESTS (see 5.1.4)	N
D.1	Measuring instrument	7	N A
D.2	Alternative measuring instrument	The state of the s	N

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

7	F	ANNEX F, MEASUREME	NT OF CLEA	RANCES AND C	REEPAGE DIST	ANCES	N_
		(see 2.10)	K Compliance	The Compliant	® The station of the	Allestand	

G	ANNEX G, ALTERNATIVE METHOD FOR DETER	RMINING MINIMUM CLEARANCES	N
G.1	Clearances	A gridat Commo	F.N
G.1.1	General		N
G.1.2	Summary of the procedure for determining minimum clearances	140	N
G.2	Determination of mains transient voltage (V):		N
G.2.1	AC mains supply	*Charles @ ## attractors	N
G.2.2	DC mains supply		N
G.2.3	Unearthed DC mains supply:		N 🙀
G.2.4	Battery operation:	5)(H) LD: 11 o	N
G.3	Determination of telecommunication network transient voltage (V)	The state of the s	N N
G.4	Determination of required withstand voltage (V) . :	- CO . E.	N
G.4.1	Mains transients and internal repetitive peaks:		N
G.4.2	Transients from telecommunication networks:	T. Barrier	N
G.4.3	Combination of transients	© All the state of	N
G.4.4	Transients from cable distribution systems) CO P	N
G.5	Measurement of transient levels (V)	70	N
	a) Transients from a mains supply	M. T. T. Santana	od Comm
les	For an a.c. mains supply	C Manual C M	N
KE Williams	For a d.c. mains supply	700 YOU	N
® 4	b) Transients from a telecommunication network		N D

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
G.6	Determination of minimum clearances:	CO CO .	N
Our.	Z.C		
H	ANNEX H, IONIZING RADIATION (see 4.3.13)		J. N.
	The Company	T. A. Company	ite station of Gu
」人物	ANNEX J, TABLE OF ELECTROCHEMICAL POT	TENTIALS (see 2.6.5.6)	N
	Metal used:)	
Alles		4	
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	d 5.3.7) 🖟	N
K.1	Making and breaking capacity	S Final de Co	N
K.2	Thermostat reliability; operating voltage (V):		N
K.3	Thermostat endurance test; operating voltage (V)	· · · · · · · · · · · · · · · · · · ·	N
K.4	Temperature limiter endurance; operating voltage (V)	CO	N
K.5	Thermal cut-out reliability		N
K.6	Stability of operation	K Samana	N
Lu 1	BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1) Typewriters		N
Lie 1 n or clober			N
L.2	Adding machines and cash registers	*UN (CD**** (Q) ### ** , O**	N
L.3	Erasers	© Mariander _ Ca Maria	N
L.4	Pencil sharpeners		N
L.5	Duplicators and copy machines		N
L.6	Motor-operated files	· 根 · · · · · · · · · · · · · · · · · ·	N N
L.7	Other business equipment	Same Same	Р
Kampianes Miss	0 # 3 double - 0 # jind - CO jim	CO .	
M	ANNEX M, CRITERIA FOR TELEPHONE RINGIN	IG SIGNALS (see 2.3.1)	N
M.1	Introduction	The territories The territories	N
CA.	Method A	© Frankling Comments	N
	Wettou / C		
M.2	Method B	J (G)	N
M.2 M.3 M.3.1			N
M.2 M.3	Method B		- All
M.2 M.3 M.3.1	Method B Ringing signal		- all
M.2 M.3 M.3.1 M.3.1.1	Method B Ringing signal Frequency (Hz):		- All

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
M.3.2	Tripping device and monitoring voltage:	20 CO	N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	-	N
M.3.2.2	Tripping device	The Table of the State of the S	N N
M.3.2.3	Monitoring voltage (V):	Grand Comments (S. M. Standerstein S. G. N.	N

N	ANNEX N, IMPULSE TEST GENERATORS (see 2.10.3.4, 6.2.2.1, 7.3.2 and clause G.5)		
N.1	ITU-T impulse test generators	S A district control (S) A start of circles	N
N.2	IEC 60065 impulse test generator	C. S. C.C.	N

P ANNE	X P, NORMATIVE REFERENCES	-17	下 将 神	The Company P
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Q	ANNEX Q, Voltage dependent resistors (VDRS) (see	e 1.5.9.1)	N
Somplia.	-Preferred climatic categories:		N ,
-0	-Maximum continuous voltage:	K Tompine	N de Compil
0	-Combination pulse current:		N N
TA N	Body of the VDR Test according to IEC60695-11-5	- 40 YOU	N
ille station of	Body of the VDR. Flammability class of material (min V-1):		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)	1000000	T. Bulliance	N N
R.2	Reduced clearances (see 2.10.3)	of Global Co.	Market and Cloud	O N

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		
S.1	Test equipment	The Manual State of the Community of the	N
S.2	Test procedure	© ## American	N
S.3 🥋	Examples of waveforms during impulse testing	0 - 700	Ν

T	ANNEX T, GUIDA	NCE ON PROTECT	TION AGAINST I	NGRESS OF WA	NTER A A	N N
	(see 1.1.2)				Allestation	< 6

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	EN 6095	50-1	
Clause	Requirement – Test	Result – Remark	Verdict
U MA	ANNEX U, INSULATED WINDING WIRES FO INSULATION (see 2.10.5.4)	R USE WITHOUT INTERLEAVED	N
· 5	and the second second	F .	下 特立
V	ANNEX V, AC POWER DISTRIBUTION SYST	EMS (see 1.6.1)	The N
V.1	Introduction	F Count Com & Manager CO N	N
V.2	TN power distribution systems	7	N
Hestallo	7		
W	ANNEX W, SUMMATION OF TOUCH CURRE	INTS TO THE TOTAL	N
W.1	Touch current from electronic circuits	@ A Manual Carden	N
W.1.2	Earthed circuits	-0 - GO	N
W.2	Interconnection of several equipments		N
W.2.1	Isolation	A Transmitted The Transmitted The Transmitted The Transmitted Tran	N
N.2.2	Common return, isolated from earth	A Completion C Management C Management	N
N.2.3	Common return, connected to protective earth	60	N
® 4	£ 300 000 1		在 格
x -0	ANNEX X, MAXIMUM HEATING EFFECT IN C.1)	TRANSFORMER TESTS (see clause	None None
X.1	Determination of maximum input current		N
X.2	Overload test procedure		N
estatio	C		
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITION	NING TEST (see 4.3.13.3)	N
Y.1	Test apparatus		N
Y.2	Mounting of test samples	:	N
Y.3	Carbon-arc light-exposure apparatus	51111 625 37.00	N
Y.4	Xenon-arc light exposure apparatus	···· K. British	N
TIME:	T. T. Sentence of The Control of The		
Z	ANNEX Z, OVERVOLTAGE CATEGORIES(se	ee2.10.3.2 and Clause G.2)	N
- (0			(a) ##
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	The County of th	N
n 56	ANNEY DE CUANCEO IN THE SECOND ED	HG 200	
BB	ANNEX BB, CHANGES IN THE SECOND ED	ITION	451 Tree
CC	ANNEX CC, Evaluation of integrated circuit	(IC) circuit limitere	N
CC:1	General General	(io) circuit illiners	N
CC.2	Test program 1	- CO - CO	N

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7/100			litze
	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
CC.3	Test program 2	- CO - CO -	N
CC.4	Test program 3		N
CC.5	Compliance	- 1	N

DD	ANNEX DD, requirements for the mounting means of rack-mounted equipment		
DD.1	General)	N
DD.2	Mechanical strength test, variable N:	- 4	N
DD.3	Mechanical strength test, 250N, including end stops:	S THE THE COMMENT OF THE PARTY	N
DD.4	Compliance	, " - GO	N

EE	ANNEX EE, Household and home/office docume	ent/media shredders	Ν
EE.1	General	© Madeiro	Ν
EE.2	Marking and instructions	60 100	Ν
(8)	Use of markings or symbols:	10	Ν
CO	Information of user instructions, maintenance and/or servicing instructions:	Galad Comm	N
EE.3	Compliance:		Ν
EE.4	Disconnection of power to hazardous moving parts		N
	Use of markings or symbols:	3 M 100"	N
EE.5	Protection against hazardous moving parts	9 # Jind	N
(2) #Fe	Test with test finger (figure 2A):		N
- 6	Test with wedge probe (figure EE1 and EE2):		N

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Clause	Requiren	nent – Test			Res	sult – Remark	Verdict
	•		1:2010/A12:2	2011/A2:2013 – 0		MMON MODIFICAT	
(a) The		subclauses, no 50-1 and it's ar		d figures which a prefixed "Z"	are additional t	to those	-
Contents A2:2013)	Annex ZE	inormative)	Normative refe corresponding Special nation	erences to internate European public nal conditions	cations		F. P.
General		I the —countryll g to the followin		reference docum	ent (IEC 6095	0-1:2005)	P
	1.4.8	Note 2	9 iist. - 1.5.1	Note 2 & 3	1.5.7.1	Note	C Man
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	
	2.2.3	Note	2.2.4	Note	2.3.2	Note	A TIME
	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	29 Complian
	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	
	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	不检
	4.7.3.1	Note 2	5.1.7.1	Note 3 & 4	5.3.7	Note 1	Figure of Global Co
	6	Note 2 & 5	6.1.2.1	Note 2	6.1.2.2	Note	Attests
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	
	G.2.1	Note 2	Annex H	Note 2	794 W.W. (47017)		1.6
General A1:2010)		g to the followin Note	g list:	ference documer 1 Note 2 Note	nt (IEC 60950-	-1:2005/A1:2010)	P
General A2:2013)	according 2.7.1 Not 6.2.2. No	g to the followin e * 2.10.3.1 No te	g list: te 2	ference documer Modification rema		-1:2005/A2:2013) ed.	P
.1.1 A1:2010)	Replace 1 NOTE 3 T multimedia	the text of NOT he requirements	E 3 by the foll of EN 60065 m IEC Guide 112		meet safety red	quirements for	3C

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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
.3.Z1	Add the following subclause:	CO ···	30	
	1.3.Z1 Exposure to excessive sound pressure		N	
	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.	Entra de la Constantina del Constantina de la Co	The state of Company	
	NOTE Z1 A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.	GC Market Landson		
A12:2011)	In EN 60950-1:2006/A12:2011	< GO		
ompile (2)	Delete the addition of 1.3.Z1 / EN 60950-1:2006	III:	N	
	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	K 15 millance	The Tell	
.5.1	Add the following NOTE:	Olivery C.	9 4 Entonut Glo	
Added info*)	NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive	o Co	N	
.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.	_C. Minimum	N	
.7.2.1	In EN 60950-1:2006/A12:2011			
A12.2011)	Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments.	The total series	N M	
	Zx Protection against excessive sound pressure from person	nal music players	- C	
	Zx.1 General	Par.		
	This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players. A personal music player is a portable equipment for personal		N GG	
	 use, that: is designed to allow the user to listen to recorded or broadcast sound or video; and primarily uses headphones or earphones that can be worn in or on or around the ears; 	The state of the s	A STATE OF THE STA	
	- allows the user to walk around while in use.	G		

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	EN 60950-1		
Clause	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.	NGC :	N
	A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause.	E TO THE PROPERTY OF CO.	The attended Comments of Comme
	The requirements in this sub-clause are valid for music or video mode only.		
	 The requirements do not apply: - while the personal music player is connected to an external amplifier; or - while the headphones or earphones are not used. NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player. 		
	The requirements do not apply to: hearing aid equipment and professionalequipment; 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 without any kind of digitalprocessing of the sound signal) that are brought to the market before the end of 2015. NOTE 4 This exemption has been allowed because this		AG A
	technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies. For equipment which is clearly designed or intended for use by	O Marino	C C •
	young children, the limits of EN 71-1 apply.		1
GC im	Zx.2 Equipment requirements No safety provision is required for equipment that complies with the following:	The state of the s	N
	 equipment provided as a package (personal music player with its listening device), wherethe acoustic output LAeq,T is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and 		
	 a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. 	GC THE R	GC F
	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.	To the state of th	EK John Julian
		H. J. Communication Co. Million Co.	St. Com

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
GC F	All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentionedabove; and b) have a standard acoustic output level not exceeding those mentioned above, andautomatically return to an output level not exceeding those mentioned above when thepower is	NGC "	N III
	switched off; and c) provide a means to actively inform the user of theincreased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The	The state of the s	
	acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time; and NOTE 2 Examples of means include visual or audible signals. Action from the user is always required. NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long the personal music player has been switched off.	The state of the s	S C
	d) have a warning as specified in Zx.3; and e) not exceed the following: 1) equipment provided as a package (player with Its listening device), the acoustic output shall be ≤ 100 dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and	C CC	A The state of the
	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.	32 (S. Mariane C. C.	- C
	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.	The Milliand State of the State	Marine discour
	In this case T becomes the duration of the song. NOTE 4 Classical music typically has an average sound pressure (long term LAeq,T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA.		
	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.	South Market Control	K A A

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
SC *	 Zx.3 Warning The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: the symbol of Figure 1 with a minimum height of 5 mm; and the following wording, or similar: 	NGC 18	N III
	"To prevent possible hearing damage, do not listen at high volume levels for long periods." Figure 1 – Warning label (IEC 60417-6044) Alternatively, the entire warning may be given through the		
GU	equipment display during use, when the user is asked to acknowledge activation of the higher level. Zx.4 Requirements for listening devices (headphones and expressions)	earnhones)	N N
A TOTAL CONTRACTOR OF THE PARTY	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.	NGO THE PERSON NAMED IN COLUMN TO PERSON NAM	N
	This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control).	JU JUC	A Standard Comment
Atte station to	NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.		1 11/10
GC F	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.	The Management of the State of	N 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.).	Manufacture AGG	N. D.
	NOTE An example of a wired listening device with digital input is a USB headphone.	industries S. A.	C

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
	 Zx.4.3 Wireless listening devices In wireless mode: with any playing and transmitting device playingthe fixed programme simulation noisedescribedin EN 50332-1; and respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combinationof 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. NOTE An example of a wireless listening device is a Bluetooth 	AC Market Control of the Control	N N N N N N N N N N N N N N N N N N N
C T	headphone.	7111	70
	Zx.5 Measurement methods Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s.	GC Market	N
	NOTE Test method for wireless equipment provided without listening device should be defined.	The Allers	5人
2.7.1	Replace the subclause as follows: Basic requirements To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):	, CC	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;	- 0 1	26
GC	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;	The transfer of the second of	and Government
	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	The state of the s	N S
Manual Condition of Condition	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.	CO D	The Community
2.7.2	This subclause has been declared 'void'.	20	N
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	111	N

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2". In Table 3B, replace the first four lines by the following: Up to and including 6 0,75 a)	NGC .	S. T. Harman
	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 some countries" in condition a).	- CO	N
3.2.5.1	In NOTE 1, applicable to Table 3B, delete the second sentence. NOTE Z1 The harmonised code designationscorresponding to the	S A TO THE COMMENT	
(A2:2013)	IEC cord types are given in Annex ZD	30	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	Entered Control	N C
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 arising from physical agents (artifical optical radiation).		N
N	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	- 6.	ZON TO
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. Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom.	A. C.	N C
Bibliography	Delete NOTE 2. Additional EN standards.		- 2

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

N. P. W.		EN 60950-1	D. C.	
Clause	Requirement – Test		Result – Remark	Verdict
ZB ANNEX (normative)SPECIAL NATIONAL CONDITIONS (EN)				-111

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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
AND THE	ZB ANNEX (normative)SPECIAL NATIONAL COND	DITIONS (EN)	60	
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		N III	
1.2.13.14	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.	Employed College Company	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.	The state of the s	N C	
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).	SO D	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.	The state of the s	N	
1.7.2.1 GC	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	CC C	N	
© ##	pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt"	-6.*		
I.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.	The state of the s	N N	
	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:		GC *	
	The state of the s	estation of Allestation		

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	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
	ZB ANNEX (normative)SPECIAL NATIONAL CONDITIONS (EN)			
	"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)."	A The State of the	N jall	
	NOTE In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be	GC Francisco		
	accepted in Norway): "Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller	The state of the s	A Semple of	
	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."	KGC REAL	玉 意	
	Translation to Swedish:	Glopal Cour.	3 A salion of Gioban	
	"Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annanutrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk förbrand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nätalvanisk isolator finnas mellan utrustningen och kabel-TV nätet."			
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 :	The transfer of the transfer o	N Management of the state of th	
obal Compliance	"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.		GG N	
	For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.	adalion of Circles @ 37	G	

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
拉那	ZB ANNEX (normative)SPECIAL NATIONAL CONI	DITIONS (EN)	100
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		
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	Front Conduction (S. M. 1997)	John John 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.	1.GO	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.	Ciopal Coming	N N
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.	SC CC	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.		N 2.6
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.	The Management	A September 1 and N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
超测	ZB ANNEX (normative)SPECIAL NATIONAL COND	DITIONS (EN)	CO
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:	The state of the s	N
	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	GC THE REAL PROPERTY OF THE PERTY OF THE PER	CC F
<u>G</u>	SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A	The Accompliance	FK Compile
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.	NGC I	N
	CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.		S A Standard Cond Con
	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.	- C .	-G
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.	Dr. V.a	N
	Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.	Find the second of the second	The date of 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.		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.	GU	

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
松利	ZB ANNEX (normative)SPECIAL NATIONAL COND	DITIONS (EN)	GU
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. NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or	E TO THE TOWN	N mil
3.2.1.1	an approved conversion plug. 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.	GG Town D	N 3 m
3.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.	10	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.	A to 300 commence	N A
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: • 1,25 mm² to 1,5 mm² nominal cross-sectional area.	,U .GC	N
4.3.6	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.	The state of the s	N A
4.3.6	In Ireland, DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.		N

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
松利	ZB ANNEX (normative)SPECIAL NATIONAL CONI	DITIONS (EN)	CO
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 has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTEDEQUIPMENT.		
6.1.2.1 (A1:2010)	In Finland , Norway and Sweden , add the following text between the first and second paragraph of the compliance clause: If this insulation is solid, including insulation forming part of a component, it shall at least consist of either -two layers of thin sheet material, each of which shall pass the electric strength test below, or		N C
	-one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below. Alternatively for components, there is no distance through insulation requirements for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition		-C

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normative)SPECIAL NATIONAL COND	ITIONS (EN)	
GC F	-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	E To The Belleview Land	N M
	complying with 2.10.5.4 b).		
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	T. T. Tomaton	© A STATE OF THE S
	A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation under the following conditions:	C Manufacture N	OC
	-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;	F. Taller	A THE
	-the additional testing shall be performed on all the test specimens as described in EN 60384-14:	GC interest	NO.
	-the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	A Marian	等 玩 超
6.1.2.2	In Finland, Norway and Sweden, the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a	10 70°C	N
	permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.	O Manufacture C	-G
7.2	In Finland , Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex.		N
	The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	The the state of t	A station of Globs
7.3	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	American S.C.	N
7.3	In Norway , for installation conditions see EN 60728-11:2005.	lite: lite	N

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1.5.1	TABLE: list of critical compone	nts	The state of the s	The state of the s	P
Object/part no	. Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
PCB	Interchangeable	Interchangeable	V-0, 130°C	UL94, UL796	UL 🧌
Coil	FINE ELECTRONICS INDUSTRIAL (HK) LIMITED	PAD3X5	105°C	EN60950-1	Test with equipment
Plastic enclosure	KINGFA SCI & TECH CO LTD	JH8-R20T05 (ddd)	Min.1.1mm thick, V-1, 80°C	UL94	UL E171666
Battery	Zhongshan Tianmao Battery Co., Ltd	9560A0PL	3.7V, 8000mAh	IEC 62133:2012	SGS CB report: SZES17070 0288901
Battery wire	Interchangeable	Interchangeable	Min. 24AWG, min. 80°C, min. 30V, VW-1	UL 758	UL
Note(s):	100		加工	The state of the s	al Compilar

Р		100	ditions)	n normal con	ectrical data (i	TABLE: el	1.6.2
	Condition/status	Ifuse (A)	Fuse#	P (W)	Irated (A)	I (A)	U (V)
Attenuion of Global	Normal operation	etar Grave		7.4	2	1.48	5 (micro USB)
	Normal operation	stallon of	- 8 M	9.15	2.1	1.83	5 (type C)
_	Normal operation			9.15	2.1	1.83	5 (type C) Note(s):.

2.1.1.5c)1) TABLE:	max. V, A, VA test	(S. S. Mondicol	Dail of Allest	Р
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
5 (USB)	2	5.06	2.6	12.4
Note(s):	:111	刑 环境产	The Company	® ## Installion of Color

2.1.1.5c)2)	TABLE: stored energy	- GC	100		N
Capacitance	C (µF)	Voltage U (V)		Ene	rgy E (J)
	711	1000	子 Thomas Comme	The of Clobal	2.C
Note(s):	3 miles III to the secondary	a For Guidal Com	A C	Attes	O

2.2	TABLE: evaluation of voltage limiting	J. J. Servation N		
Common	max. voltage (V) (normal operation)			
Compone	ent (measured between)	Vpeak	Vd.c.	Components
Clopal Co.			100	M - 版

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Fault test pe	Fault test performed on voltage limiting components				Voltage measured (V) in SELV circuits (V peak or V d.c.)			
		不是	nation co	KE AM	® Filterstation of Gio	® ## Station of Globs	(S) Attestation (
Note(s):	THE THE	® Martin of Globs	a Z Z or chair	- 7	10	30	C	

2.5	TABLE: limited power source me	asurement	- 7M	The same	P	
Measured	Uoc (V) with all load circuits	Isc	(A)	VA		
disconnect	ed:	Meas.	Limit	Meas.	Limit	
® Attestatio	5.06 (normal)	2.6	8	12.4	100	
	4.17 (U1 pin7-8 S-C)	6.6	8	15.5	100	
Note(s): S-	C: short circuit.	The Things (6)	E Francisco (Sobal Control Con	The station of Giov	CO "	

2.10.2	TABLE: Working voltage measurement							
Location		RMS voltage (V)	Peak voltage (V)	Comments				
		The Committee of the Co	Compliance @ ## major of Co	C Milles allon C				
Note(s):	The demphance	(a) Marting Close (c) Marting Co.	100	G- P-				

2.10.3 and 2.10.4	TABLE: clearance a	and creepage	distance mea	Ciopal Com	N		
Clearance cl distance dcr	and creepage at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)
Attestation of	-C	O -					
Note(s):	3	-till	X 3	mplie	AL CO.	(C) # 100001	The state of the s

2.10.5	TABLE: distance through insulation	measurements			N 🔬
Distance the	rough insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)
Note(s):	© A Jacob Color Color	EC M	-60		

4.3.8	TABLE: Batte	eries				The Hall Hall	玉玉	Compliance	® Paragraphic of	
The tests of a	4.3.8 are appli	cable only v	when approp	riate batter	y data is	and Cloppar	Attestation of Given	NC	P	
Is it possible	to install the b	attery in a r	everse pola	rity position	?	Impossible			N	
5	Non-red	Non-rechargeable batteries					Rechargeable batteries			
	Disch	arging	Uninten-	Cha	rging	Discha	arging	Reverse	Charging	
A Kangane	Meas. Current	Manuf. Specs.	tional charging	Meas. Current	Manuf. Specs.	Meas. Current	Manuf.S pecs.	Meas. Current	Manuf. Specs.	

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FW alcoun	- 6	Pare 1	Alles				111172	-C	lil.
Max. current during normal condition	G	¥G.	The transfer	1.97	4	2.85	8	手 环 拉 comm	C The state of the
Max. current during fault condition	iobal Compilance	GG **	ion of Ga	2.42	4	3.77	8	-1	·····································
Test results:			1	Kampiones Huy	拉测	. 1	Compliance	© \$5	Verdict
- Chemical leaks	3	AT JUNE	® Manager of Co	(C) (M)	Figure Clobal Co.	® #Francor of C	Hom	30 m	Р
- Explosion of th	e battery	3	,0						Р
- Emission of fla	me or exp	ulsion of mo	Iten metal		=	1	1.	Zamin.	P
- Electric strengt	h tests of	equipment a	fter complet	ion of tests	0 4 4	No par County	Manager of Glob		N
Note(s):	Clopa County	一手 ACCOUNT	(c) (See 1970)	A Clopal Count	6	~ C3C	1		

4.3.8	TABLE: Batteries		(检测	机	M ®
Battery ca	tegory	: K 1777	® # Junt Gobal	® ### If Glove	- GG
Manufactu	ırer	(i)	,C * \C	30	
Type/mod	el	:		- FILL	拉测
	Capacity			Clopal Compilar	F Thon of Clobal Collin
Circuit pro	otection diagram	:	-11	CO.	lites.
Tr	Company of the second of the s	A Siller			
MARKING	SS AND INSTRUCTIONS (1.7.13)				
Location of	of replaceable battery	ZK Zonalio	3,17,100	® ## "ion"	- 第·号
Language	r(s)	Colonic ©	The anton of Gior	Milesto	20
Close to the	ne battery	:			ALID.
In the serv	vicing instructions	:			Mance
In the ope	rating instructions	:	I The	Angliance (S)	station of Giv
Note(s):	The State of the S	® # John of Globs	© American of C	-GO	

4.5	TABLE: maximum temperatures	10		THE STATE OF THE S	Р		
	Test voltage (V)	a) Charging b) Discharg c) Discharg					
T of a settlet			T (°C)				
maximum (emperature T of part/at:	a)	b)	c)	(°C)		
PCB near U	J1	79.4	75.2	95.3	130		
PCB near U	J3 # # # # # # # # # # # # # # # # # # #	75.6	73.8	87.9	130		
PCB near C	Q5	57.6	75.8	59.6	130		

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Pill.					11117	lttr-
Co	all.	54.0	74.	1 1	56.8	105
The World	ompliance -jus	59.5	57.	3	60.9	80
到 囊 dallon of Clobal	0 = 3	50.7	50.	2	52.5	95
Ame		58.8	57.	4	60.6	80
5		57.1	56.	2	58.3	Ref
	The Total Comp	40.0	40.	0 4	40.0	Allestation
t₁(°C)	R ₁ (Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C	C) Allowed T _{max} (°C)	Insulation Class
2						J
um ambient	temperatu	re of 40°C	不是	I. phiance	Ex Complian	© Aller attended
	t ₁ (°C)	7	59.5 50.7 58.8 57.1 40.0 t ₁ (°C) R ₁ (Ω) t ₂ (°C)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

4.5.5	TABLE: ball p	ressure test of th	ermoplastic parts		3		N
0	allowed impres	ssion diameter (n	nm):		Wil name	Th.	
Part				Test tempe	erature(°C)		ion diameter mm)
Kampianos Aller	The tonname	Q A Clos	(C) Milestation of	CO -	10		
Note(s):	Manufacture of Government of G	10		•		松	The HELDING

4.7	TABLE	: Resistance to fire				Р
Part		Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
Atte status	-,0	1				8
Note(s):			The Committee	SA Good Co.	® State Station of	Altesth

5.1	TABLE: touch current measurement			N 🧌
Measured b	etween:	Measured(Ma)	Limit(Ma)	Comments/conditions
	測 極調	Thomas	The state of the s	- ()
Note(s):	The Common Commo	(i) Alley allor of the Alley and the Alley allor of the Alley allor of the Alley allors of the Alley allor	-G **	0 50

5.2 TA	ABLE: electric strength tests and impulse tests	KI THE	The Section of the Se	
Test voltage app	olied between:	Test voltage (V)	Breakdown	
The Acomption	of the state of th	1 300	_	
Note(s):	-C		报 测	

5.3	TABLE: fault condition tests	The Condition	© Alfestation of	- C	Р
A Compliance	ambient temperature (°C)		: 24.2-25.0	9	_

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Component no. Fault		Fault	Test Test voltage (V) time		Fuse no.	Result	
Charging by	type (2G	tte station				
U1 Pin 1-7, S-C		Pin 1-7, S-C	5	10min	7/1	Normal operationg, charging current increase, no damage, no hazards.	
U1	ilance Mil	Pin 7-9, S-C	5	10min	Fin of Global Complian	Unit shut down, recoverable, no damage, no hazards.	
C1		S-C	5	10min		Unit shut down, recoverable, no damage, no hazards.	
Discharging I	by US	B					
U1	16	Pin 7-9, S-C	3.7	10min	® # Final C	Unit shut down, recoverable, no damage, no hazards.	
Battery	ation of Gillos	B- to B+, S-C	3.7	30min	<u> </u>	After SC, unit shutdown immediately battery no fire, no explosion and no leakage, no hazards.	
USB outpu	t	O-L	3.7	2H15mi n	James ©	Max overload at 2.5A, over 2.5A unit shut down, recoverable, no damage, no hazards.	
Discharging I	oy wir	eless	station of Glob	Altestation	10°	300	
Q5	station	Pin 3-6, S-C	3.7	10min		Unit shut down, recoverable, no damage, no hazards.	
Coil	M	S-C	3.7	10min	7 A CO	Unit shut down, recoverable, no damage, no hazards.	
Output	nce 3	O-L	3.7	2H53mi n		Max over load at 5.4W, over 5.4W un shut down, recoverable, no damage, no hazards.	
U1	9	Pin 7-8, S-C	3.7	10min		Unit shut down, recoverable, no damage, no hazards.	

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AttachmentA Photos of product



Fig.1-over view



Fig.2 -over view

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Fig.3-over view

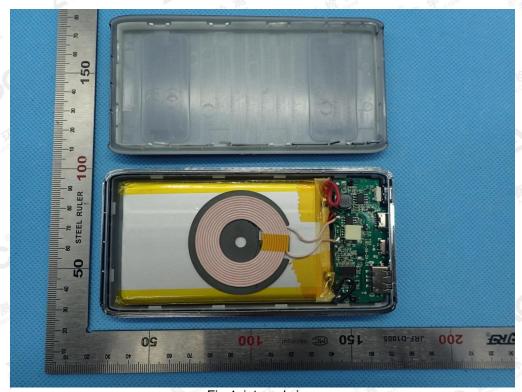


Fig.4-internal view

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Fig.5 - internal view

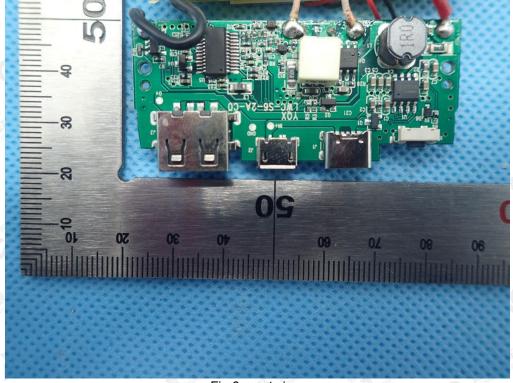


Fig.6- part view

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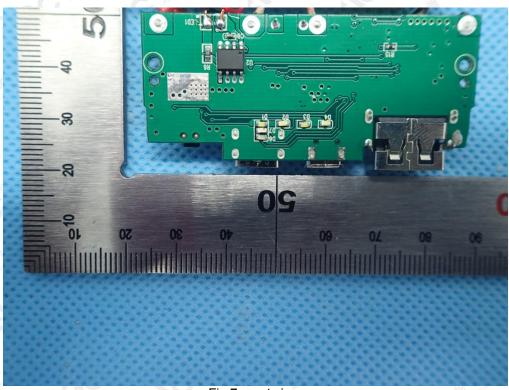


Fig.7- part view



Fig.8- part view

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