

Safety Test Report

Report No.: AGC07849160801ES01

PRODUCT DESIGNATION **UHF** Reader

ZK RFID BRAND NAME

RU101R-W-E-V1.0, RU100R-W-E-V1.0, UHF1-5E, UHF2-5E, **MODEL NAME**

UHF1-10E, UHF2-10E

CLIENT Guangdong ZK Radio Electronic Tech Co., Ltd

DATE OF ISSUE Oct. 17, 2016

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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Page 2 of 49

TEST REPORT

EN 60950-1

Information technology equipment-Safety-Part 1: General requirements

Report Reference No...... AGC07849160801ES01

Tested by (+ signature) Sara Li

Reviewed by (+ signature) Jenny Li

Sara Li Jernyli Mette He

Matte He Approved by (+signature)

(Authorized Officer)

Date of issue Oct. 17, 2016

Contents...... Total 49 pages.

Testing laboratory

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

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

Applicant

Name..... Guangdong ZK Radio Electronic Tech Co., Ltd

1004 Room, 3 block B, Tian-an-Yun-Gu, Ban Tian Longgang, Shenzhen,

China

Manufacturer

...... Guangdong ZK Radio Electronic Tech Co., Ltd Name.....

1004 Room, 3 block B, Tian-an-Yun-Gu, Ban Tian Longgang, Shenzhen,

China

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...... AGC60950A7

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

Master TRF Dated 2014-04

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Page 3 of 49

Test item	C. S. C. NO. NO.		
Product designation	GO		
Brand name ZK RFID			
Test model RU101R-W-E-	RU101R-W-E-V1.0, UHF1-5E		
Series model RU100R-W-E-	RU100R-W-E-V1.0, UHF2-5E, UHF1-10E, UHF2-10E		
Rating(s) 12V === 1A			
Particulars			
Equipment mobility	☐movable ☐ hand-held ☐transportable ☐stationary ☐for building-in ☐direct plug-in		
Connection to the mains	□ □ pluggable equipment □ type A □ type B		
43 CO LO	permanent connection		
-C	☐ detachable power supply cord ☐ non-detachable power supply cord		
	⊠not directly connected to the mains		
Operating condition	⊠continuous		
Access location	☐rated operating/ resting time: ☐operator accessible		
Access location	restricted access location		
Over voltage category(OVC)	OVC I OVC II OVC III OVC IV Sother		
Mains supply tolerance(%) or absolute mains supply values	N/A		
Tested for IT power systems	: □Yes ⊠No		
IT testing, phase-phase voltage(V)			
Class of Equipment	☐Class I ☐Class II ☐Class III ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		
Considered current rating of protective device as par of the building installation (A)	t 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			
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.		
Date of receipt of test item	Aug. 22, 2016		
Date(s) of performance of test	Aug. 22 – Oct. 14, 2016		

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Page 4 of 49

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:	极测	拉那	T. B. T.
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	100	2016-10-17	Valid	Original report

General product information

The UHF Reader supplied by DC Source. which is considered as stationary and Class III (supplied by SELV).

The series models are identical except for model name, appearance, antenna and software, All tests were conducted with model RU101R-W-E-V1.0 and UHF1-5E represent all models.

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

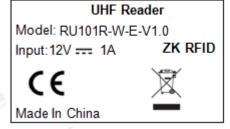
The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of 60 °C.

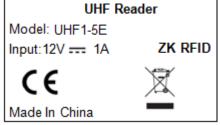
Summary of testing

The test item passed.

Copy of marking plates

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





Remark:

- 1) The CE marking and WEEE symbol (if any) should be at least 5mm and 7mm respectively in height. Markings of other models are identical except for model name.
- 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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Page 5 of 49

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdic
√ C	30 .60	4.5	小相
1	GENERAL		P
1.5	Components		Р
1.5.1	General	11 瓦龙	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)	SCP.
1.5.2	Evaluation and testing of components	Components which are certified to IEC/EN and/or national standards are used correctly within their ratings. Components not covered by IEC/EN standards are tested under the conditions present in the equipment.	P
1.5.3	Thermal controls	No any thermal controls.	Ν
1.5.4	Transformers	No transformers.	_M N
1.5.5	Interconnecting cables	T. 电二、环境	N
1.5.6	Capacitors bridging insulation		N
1.5.7	Resistors bridging insulation	CO - CO	N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	Killian Carlo	N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable	100 No.	N
1.5.8	Components in equipment for IT power systems	. 那	N
1.5.9	Surge suppressors	No such parts.	N
1.5.9.1	General	- * · · · · · · · · · · · · · · · · · ·	N
1.5.9.2	Protection of VDRs		Ν
1.5.9.3	Bridging of functional insulation by a VDR	_ # # # # # # # # # # # # # # # # # # #	N
1.5.9.4	Bridging of basic insulation by a VDR		N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	CC SC	N
	C C		
1.6	Power interface	The Total of The Control	P
1.6.1	AC power distribution systems	No direct mains connection.	N

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Page 6 of 49

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1.6.2	Input current	10000000000000000000000000000000000000	Р
1.6.3	Voltage limit of hand-held equipment	The state of the s	P
1.6.4	Neutral conductor	-0	N

1.7	Marking and instructions	T. 包.	Р
1.7.1	Power rating	See below	Р
- TIME	Rated voltage(s) or voltage range(s) (V)	12V	
ger.	Symbol for nature of supply, for d.c. only:		
C	Rated frequency or rated frequency range (Hz):		
3	Rated current (mA or A)	1A	
1.7.1.2	Identification markings	C.3.	Р
Statement of Chicago	Manufacturer's name or trademark or identification mark	ZK RFID	
NO	Type/model or type reference:	RU101R-W-E-V1.0, RU100R-W-E- V1.0, UHF1-5E, UHF2-5E, UHF1- 10E, UHF2-10E	
不恒	Symbol for Class II equipment only:	Class III equipment	
To of Older	Other marking and symbols:	10 10	
1.7.1.3	Use of graphical symbols	T. T. St.	Р
1.7.2	Safety instructions and marking	See report summary for detail	P
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	· 电影	N
1.7.2.4	IT power distribution systems	-G	N
1.7.2.5	Operator access with a tool	100	N
1.7.2.6	Ozone	10000000000000000000000000000000000000	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
C T	Methods and means of adjustment; reference to installation instructions		N.
1.7.5	Power outlets on the equipment	E TO THE STATE OF	N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):	F1,3A,32VDC	Р
1.7.7	Wiring terminals	11 11	N
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment, no protective earthing	CN

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Page 7 of 49

	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
1.7.7.2	Terminal for a.c. mains supply conductors	E E	N	
1.7.7.3	Terminals for d.c. mains supply conductors	The state of the s	N	
1.7.8	Controls and indicators	- C - CO	N	
1.7.8.1	Identification, location and marking	It is obviously unnecessary.	N	
1.7.8.2	Colours	11 不完	N	
1.7.8.3	Symbols according to IEC 60417	The State of the S	N	
1.7.8.4	Markings using figures	Not applicable.	N	
1.7.9	Isolation of multiple power sources:	No direct connection to mains supply	N	
1.7.10	Thermostats and other regulating devices		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	No battery	N	
10	Language(s)			
1.7.14	Equipment for restricted access locations:	6 TO \C	N	

2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards	No hazardous parts in operator access areas.	Р
2.1.1	Protection in operator access areas	30, 300	Р
2.1.1.1	Access to energized parts	No energized parts.	Р
CO"	Test by inspection	五利 天性	
	Test with test finger(Figure 2A)	R. San Carlo	
~ 恒	Test with test pin (Figure 2B)	- CO - CO	
Total Cicioni	Test with test probe (Figure 2C)		
2.1.1.2	Battery compartments	T. S.	N
2.1.1.3	Access to ELV wiring	- T	N
4	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	C BC D	
2.1.1.4	Access to hazardous voltage circuit wiring		N N
2.1.1.5	Energy hazards	No energy hazard in operator access area.	Р
2.1.1.6	Manual controls	- 60	N
2.1.1.7	Discharge of capacitors in equipment		N
70	Time-constant (s); measured voltage (V)	The state of the s	
2.1.1.8	Energy hazards – d.c. mains supply	53.0° - 5.0° - C	N

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Page 8 of 49

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
~C	a)Capacitor connected to the d.c. mains supply:	工程	N
	b)Internal battery connected to the d.c. mains supply:	1 To	N
2.1.1.9	Audio amplifiers:	100 100	N
2.1.2	Protection in service access areas	100	N
2.1.3	Protection in restricted access locations	# The Table 19 19 19 19 19 19 19 19 19 19 19 19 19	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. P.
2.2.2	Voltages under normal conditions (V)	Within SELV limits.	Р
2.2.3	Voltages under fault conditions (V)	Within SELV limits.	Р
2.2.4	Connection of SELV circuits to other circuits:	The Target of Target of The Target of The Target of	N

2.3	TNV circuits		N
2.3.1	Limits	No TNV circuits.	™ N
	Type of TNV circuits:	正	N
2.3.2	Separation from other circuits and from accessible parts	CC SC CC	N
2.3.2.1	General requirements		N
2.3.2.2	Protection by basic insulation	不到 下海	N
2.3.2.3	Protection by earthing	A The state of the	N
2.3.2.4	Protection by other constructions	" CO" CO	N
2.3.3	Separation from hazardous voltages		N
× C	Insulation employed:	T. T. T.	N
2.3.4	Connection of TNV circuits to other circuits	工	N
	Insulation employed:	- # 3° S	N
2.3.5	Test for operating voltages generated externally		N

2.4	Limited current circuits		N
2.4.1	General requirements	No limited current circuits to be evaluated.	N
2.4.2	Limit values		N
	Frequency (Hz)	The Management of the Comment	N
1	Measured current (mA)	** - C	N

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Page 9 of 49

@ 400 089 2118

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
√ G	Measured voltage (V)	10000000000000000000000000000000000000	N
	Measured capacitance (nF or μF)	The state of the s	N
2.4.3	Connection of limited current circuits to other circuits	CC CC	N

2.5	Limited power sources		N
	a)Inherently limited output	5.C	N
City dilling	b)Impedance limited output		N
-,C	c)Regulating network limited output under normal operating and single fault condition		N N
	d)Overcurrent protective device limited output	- C	N
平玩	Max. output voltage (V), max. output current (A), max. apparent power (VA):	CC NO	
	Current rating of overcurrent protective device (A)		N
130	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	The state of the s	N
- Aller	Use of symbol for functional earthing	-0	N
2.6.3	Protective earthing and protective bonding conductors	io be	N
2.6.3.1	General	拉那	N
2.6.3.2	Size of protective earthing conductors	C. C.	N
学 玩 地	Rated current (A), cross-sectional area (mm2), AWG:	FC0 FC	N
2.6.3.3	Size of protective bonding conductors	T. T. Com	N
	Rated current (A), cross-sectional area (mm2), AWG	a # the co	N See
2.6.3.4	Resistance of earthing conductors and their terminations, resistance(Ω), voltage drop(V),test current (A), duration(min)		N THE
2.6.3.5	Colour of insulation:	in the second se	N
2.6.4	Terminals	2.C 20	N
2.6.4.1	General	10	N
2.6.4.2	Protective earthing and bonding terminals	· · · · · · · · · · · · · · · · · · ·	N

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Page 10 of 49

@ 400 089 2118

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
30	Rated current (A), type and nominal thread diameter (mm)	具状型 具状型	N
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	CC CC	N
2.6.5	Integrity of protective earthing		N
2.6.5.1	Interconnection of equipment	T. T.	N
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	A TAMES CO.	N
2.6.5.3	Disconnection of protective earth	0. 50	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		N
2.6.5.7	Screws for protective bonding	100	N
2.6.5.8	Reliance on telecommunication network or cable distribution system	不是想 不是想	N

2.7	Overcurrent and earth fault protection in primary circuits		N
2.7.1	Basic requirements	No primary circuits.	N
	Instructions when protection relies on building installation		N
2.7.2	Faults not covered in 5.3.7	GO - CO	N
2.7.3	Short-circuit backup protection		N
2.7.4	Number and location of protective devices:	The Barrier	N
2.7.5	Protection by several devices	A 3	N
2.7.6	Warning to service personnel	20 . 30	N

2.8	Safety interlocks	不是	N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	- * · · · · · · · · · · · · · · · · · ·	N
2.8.3	Inadvertent reactivation		N
2.8.4	Fail-safe operation		N
	Protection against extreme hazard	1 3 m	N
2.8.5	Moving parts	-0**	N
2.8.6	Overriding	300	N
2.8.7	Switches and relays	大型 大型	N
2.8.7.1	Contact gaps (mm):	- 5 30	N

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Page 11 of 49

EN 60950-1				
Clause	Requirement – Test	Result – F	Remark	Verdict
2.8.7.2	Overload test		在 地	N
2.8.7.3	Endurance test	五型 五年	THE STATE OF THE S	N
2.8.7.4	Electric strength test	ou comme	-0	N
2.8.8	Mechanical actuators	10		N

2.9	Electrical insulation	The state of the s	N
2.9.1	Properties of insulating materials	8 3 CO 1	N
2.9.2	Humidity conditioning	7 E	N 剩
- 6	Humidity (%),temperature (°C)		N
2.9.3	Grade of insulation	Functional insulation only.	N
2.9.4	Separation from hazardous voltages	C 3 200	N
F of Grown	Method(s) used:	-C	N

2.10	Clearances, creepage distances and distances through insulation		N
2.10.1	General	Functional insulation only.	N
小	Frequency	100	N
E de la companya de l	Pollution degrees	有型 不肯	N
	Reduced values for functional insulation	The state of the s	N
:10	Intervening unconnected conductive parts	-0" -0"	N
political	Insulation with varying dimensions	0 30	N
- C. *	Special separation requirements	4	N
G	Insulation in circuits generating starting pulses	水	N
2.10.2	Determination of working voltage	- C - C - C - C - C - C - C - C - C - C	N
2.10.3	Clearances	100	N
2.10.3.1	General	11 万世	N
2.10.3.2	Mains transient voltages	The state of the s	N
	a)AC mains supply	65° CO N	N
" "	b)Earthed d.c. mains supplies	O	N
C.	c)Unearthed d.c. main supplies	710	N
	d)Battery operation	10000000000000000000000000000000000000	N
2.10.3.3	Clearances in primary circuits	C \$ 200	N
2.10.3.4	Clearances in secondary circuits	-CO P	N
2.10.3.5	Clearances in circuits having starting pulses		N 🦛
2.10.3.6	Transients from a.c. mains supply:	The Third of the State of the S	N
2.10.3.7	Transients from d.c. mains supply:	5 C C	N

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Page 12 of 49

Clause	Requirement – Test	Result – Remark	Verdict
2.10.3.8	Transients from telecommunication networks and cable distribution systems	Treath Tremark	N
2.10.3.9	Measurement of transient voltage levels	- 3 3 - C	N
校节	a)Transients from a mains supply	1 100 100	N
F January	For a.c. mains supply:		N
	For d.c. mains supply:	The state of the s	N
700	b)Transients from	4 30	N
2.10.4	Creepage distances	78 10 3	N
2.10.4.1	General		N
2.10.4.2	Material group and comparative tracking index	A TO THE REST OF THE PERSON OF	N
NR F	CTI tests	A PART CO	N
2.10.4.3	Minimum creepage distances	30	N
2.10.5	Solid insulation	71	N
2.10.5.1	General	不是 不是	N
2.10.5.2	Distances through insulation	63 - CE - C	N
2.10.5.3	Insulation compound as solid insulation	- CO D	N
2.10.5.4	Semiconductor device		N
2.10.5.5	Cemented joints	· · · · · · · · · · · · · · · · · · ·	N
2.10.5.6	Thin sheet material - General	- C3	N
2.10.5.7	Separable thin sheet material	60 100	N
- 1	Number or layers(pcs)	110	N
2.10.5.8	Non-separable thin sheet material	表型 天	N
2.10.5.9	Thin sheet material – standard test procedure	Marie Committee	N
	Electric strength test	100 100	N
2.10.5.10	Thin sheet material – alternative test procedure		N
- C	Electric strength test	A The state of the	N
2.10.5.11	Insulation in wound components	- 4 3 - C 5	- N
2.10.5.12	Wire in wound components		N
C. 3	Working voltage:		N
3	a)Basic insulation not under stress:	我想 不老师 馬	N
	b)Basic, supplementary, reinforced insulation:	The state of the s	N
怪那	c)Compliance with Annex U		N
+ (1	Two wires in contact inside wound component; angle between 45° and 90°:		N
2.10.5.13	Wire with solvent-based enamel in wound components	A Trade of the same	N

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Page 13 of 49

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
\ G	Electric strength test	· · · · · · · · · · · · · · · · · · ·	N
	Routine test	The state of the s	N
2.10.5.14	Additional insulation in wound components	-C - CO	N
The terminal	Working voltage	10 10	N
Marton of Co.	-basic insulation not under stress	111 不吃	N
	-Supplementary, reinforced insulation:	The state of the s	N
2.10.6	Construction of printed boards	4 TO 10	N
2.10.6.1	Uncoated printed boards) E	N
2.10.6.2	Coated printed boards		√ N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	a # # CO	N
2.10.6.4	Insulation between conductors on different layers of a printed board	CC BC	N
~G'	Distance through insulation	10000000000000000000000000000000000000	N
	Number of insulation layers(pcs)	The state of the s	N
2.10.7	Component external terminations	20.	N
2.10.8	Tests on coated printed boards and coated components		_M N
2.10.8.1	Sample preparation and preliminary inspection	The state of the s	N
2.10.8.2	Thermal conditioning	-0" 60"	N
2.10.8.3	Electric strength test	0 50	N
2.10.8.4	Abrasion resistance test		N
2.10.9	Thermal cycling	不是	N
2.10.10	Test for Pollution Degree 1 environment and insulating compound	CC SCC	N
2.10.11	Test for semiconductor devices and cemented joints	10000000000000000000000000000000000000	N
2.10.12	Enclosed and sealed parts	The state of the s	N

3	WIRING, CONNECTIONS AND SUPPLY	GO	P.
3.1	General		P
3.1.1	Current rating and overcurrent protection	Adequate cross sectional areas on internal wiring. No internal wire for primary power distribution.	PC
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges that could damage the insulation and cause hazard.	P
3.1.3	Securing of internal wiring	Internal wiring is reliable secured	Р

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Page 14 of 49

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
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	J' - C' GO	N
3.1.6	Screws for electrical contact pressure	100	N
3.1.7	Insulating materials in electrical connections	1 天皇	N
3.1.8	Self-tapping and spaced thread screws	The State of the State of Stat	N
3.1.9	Termination of conductors	18300	N
_ 4	10 N pull test	O. E. D.	N 剩
3.1.10	Sleeving on wiring		N N

3.2	Connection to a mains supply	C. **	N
3.2.1	Means of connection		N
3.2.1.1	Connection to an a.c. mains supply		N
3.2.1.2	Connection to a d.c. mains supply	E The state of the	N
3.2.2	Multiple supply connections	-C N	N
3.2.3	Permanently connected equipment	10	N
The state of the s	Number of conductors, diameter (mm) of cable and conduits	工工 电影	
3.2.4	Appliance inlets	C. C.C.	N
3.2.5	Power supply cords	,0	N
3.2.5.1	AC power supply cords		N
GU	Туре	3 M	
不吃!	Rated current (A), cross-sectional area (mm²), AWG	CC BOOK	
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief	1. 1	N
	Mass of equipment (kg), pull (N)	A The second second	
	Longitudinal displacement (mm):	A GO N	
3.2.7	Protection against mechanical damage		N
3.2.8	Cord guards	型 接型	N
	D (mm); test mass (g)	- 4 % - C	
AR THE	Radius of curvature of cord (mm)	-C* NO	
3.2.9	Supply wiring space	<u>G</u>	N

3.3	Wiring terminals for connection of external conductors	N
	4 Y 10 M 10	

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Page 15 of 49

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
3.3.1	Wiring terminals	1. 电影	N
3.3.2	Connection of non-detachable power supply cords	5 C S C S	N
3.3.3	Screw terminals	100 100	N
3.3.4	Conductor sizes to be connected		N
-01	Rated current (A), cord/cable type, cross-sectional area (mm²)	五年 一	
3.3.5	Wiring terminal sizes	- 12 - 10 - 10	N
C S	Rated current (A), type and nominal thread diameter (mm)		
3.3.6	Wiring terminals design	The state of the s	N
3.3.7	Grouping of wiring terminals	C 300	N
3.3.8	Stranded wire	700 P	N

3.4	Disconnection from the mains supply	T. T. Sandar	N
3.4.1	General requirement	Class III equipment	N
3.4.2	Disconnect devices	100	N
3.4.3	Permanently connected equipment	报酬 不管	N
3.4.4	Parts which remain energized	The state of the s	N
3.4.5	Switches in flexible cords	-0"	N
3.4.6	Single-phase equipment and d.c. equipment	10	N
3.4.7	Three-phase equipment		N
3.4.8	Switches as disconnect devices	The Party of the P	N
3.4.9	Plugs as disconnect devices	3 - C - C C	N
3.4.10	Interconnected equipment	100 100	N
3.4.11	Multiple power sources	1 不是	N

3.5	Interconnection of equipment	4 F. CO .	P
3.5.1	General requirements	D. D.	Р 🧌
3.5.2	Types of interconnection circuits	SELV circuit only.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnections.	N
3.5.4	Data ports for additional equipment		N

4	PHYSICAL REQUIREMENTS					P 4
4.1	Stability	TILL.	- Fr	Complete	The Street of th	N

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Page 16 of 49

	EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict			
√ G	Angle of 10°	The state of the s	N. N.			
	Test: force (N)		and N			

4.2	Mechanical strength		Р
4.2.1	General	See below	P
	Rack-mounted equipment.	The state of the s	N
4.2.2	Steady force test, 10 N	1 CO 1	N
4.2.3	Steady force test, 30 N	7.	N 🦚
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	P
4.2.5	Impact test	- C	N
五 五	Fall test	CC NO	N
athetation of	Swing test		N
4.2.6	Drop test; height(m):	1m; No damage of the enclosure, no energy hazards or damage to enclosure integration after the test.	C P
4.2.7	Stress relief test	77.9℃, 7hours, no hazard.	Р
4.2.8	Cathode ray tubes	100	N
	Picture tube separately certified	The state of the s	N
4.2.9	High pressure lamps	- C * C C	N
4.2.10	Wall or ceiling mounted equipment; force (N):	0 10	N

4.3	Design and construction	T E T	P
4.3.1	Edges and corners	Edges and corners are rounded.	Р
4.3.2	Handles and manual controls; force (N)	100 10	N
4.3.3	Adjustable controls	极	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		N
30	Torque	42 (42	N
A FILL	Compliance with the relevant mains plug standard	Carried NGC	N
4.3.7	Heating elements in earthed equipment	100	N
4.3.8	Batteries	大型 大型	N
	-Overcharging of a rechargeable battery	H. There's H. There's Comments of the Comments	N

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Page 17 of 49

	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
20	-Unintentional charging of a non-rechargeable battery	· · · · · · · · · · · · · · · · · · ·	N		
	-Reverse charging of a rechargeable battery	C -C	N		
不 地	-Excessive discharging rate for any battery	700 10	N		
4.3.9	Oil and grease	No Oil and grease.	N		
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N		
4.3.11	Containers for liquids or gases	No containers for liquids or gases	N		
4.3.12	Flammable liquids:	The equipment does not contain flammable liquid.	N A		
-,0	Quantity of liquid (I):		N		
J. A. W	Flash point (°C)	-C	N		
4.3.13	Radiation; type of radiation:	20 30	N		
4.3.13.1	General		N		
4.3.13.2	Ionizing radiation	No ionizing radiation	N		
	Measured radiation (pA/kg)	5 To 10 To 1			
*3.	Measured high-voltage (kV):	200			
- F The com	Measured focus voltage (kV)				
	CRT markings	不是			
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	N		
	Part, property, retention after test, flammability classification	CC SCC	N		
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	11	N		
4.3.13.5	Lasers (including laser diodes) and LEDs	不是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	N		
4.3.13.5.1	Lasers (including laser diodes)	CC CO	N		
F The com	Laser class	10			
4.3.13.5.2	Light emitting diodes (LEDs)	加斯			
4.3.13.6	Other types	The State of the S	N		

4.4	Protection against hazardous moving parts	-,0	N
4.4.1	General	No hazardous moving parts.	N N
4.4.2	Protection in operator access areas		N
拉测	Household and home/office document/media shredders	CC S	N
4.4.3	Protection in restricted access locations		N
4.4.4	Protection in service access areas	张 整	N
4.4.5	Protection against moving fan blades	53 68 10	N

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AGC 8



Page 18 of 49

	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
4.4.5.1	General	10000000000000000000000000000000000000	N		
	Not considered to cause pain or injury. a)	The state of the s	N		
1	Is considered to cause pain, not injury. b)	-C - CO	N		
IN THE	Considered to cause injury. c)	10 10	N		
4.4.5.2	Protection for users	11 不包	N		
	Use of symbol or warning	The State of the State of Comments of Comment	N		
4.4.5.3	Protection for service persons	1 CO 1	N		
Service Contraction of the Service Contraction o	Use of symbol or warning:		N 📹		

4.5	Thermal requirements	T. T. T.	P
4.5.1	General	C 300	Р
4.5.2	Temperature tests	(see appended table 4.5)	Р
	Normal load condition per Annex L		
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat	No thermoplastic parts on which parts at hazardous voltage are directly mounted.	N

4.6	Openings in enclosures	-0"	N
4.6.1	Top and side openings	No openings.	N
- 6.3	Dimensions (mm)		
4.6.2	Bottoms of fire enclosures	不 地	N
1/Z	Construction of the bottom	-0" -0	·
4.6.3	Doors or covers in fire enclosures	100	N
4.6.4	Openings in transportable equipment	11 不整	N
4.6.4.1	Constructional design measures	The Bandon St. Francisco	N
	Dimensions(mm)	4.3 CO	N
4.6.4.2	Evaluation measures for larger openings	0 " E	N
4.6.4.3	Use of metallized parts	-111	S. N
4.6.5	Adhesives for constructional purposes	· 电	N
-1111	Conditioning temperature (°C), time (weeks):		

4.7	Resistance to fire	100	P
4.7.1	Reducing the risk of ignition and spread of flame	Use of plastic with the required flammability classes.	C P

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Page 19 of 49

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
20	Method 1, selection and application of components wiring and materials	Method 1 used	P
via.	Method 2, application of all of simulated fault condition tests	CC CC	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	See appended table 1.5.1	Р
4.7.2.2	Parts not requiring a fire enclosure	2 15.000	N
4.7.3	Materials		Р
4.7.3.1	General		Р
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1	P P
4.7.3.3	Materials for components and other parts outside fire enclosures	C TO SOCIETY	N
4.7.3.4	Materials for components and other parts inside fire enclosures	Internal components except small parts are V-2 or better.	Р
4.7.3.5	Materials for air filter assemblies	No air filter assemblies	N
4.7.3.6	Materials used in high-voltage components	No high voltage components.	N

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		№ P
5.1	Touch current and protective conductor current		N
5.1.1	General	- C 3	N
5.1.2	Equipment under test (EUT)	00	N
5.1.2.1	Single connection to an a.c. mains supply	110	N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	东京·	N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	100 FOO	N
5.1.3	Test circuit	1 五度	N
5.1.4	Application of measuring instrument	The Barrier St. Transfer	N
5.1.5	Test procedure	A CO	N
5.1.6	Test measurements	2 " E	N 🦠
-C	Test voltage (V)	- in	N N
9	Measured touch current (mA)	电	N
:1111	Max. allowed touch current (mA)	C	N
16 miles	Measured protective conductor current (mA):	100 P	N
	Max. allowed protective conductor current (mA) .:	The state of the s	N
5.1.7	Equipment with touch current exceeding 3.5 mA:	T. T. Samuel S.	N
5.1.7.1	General:		N

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Page 20 of 49

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
5.1.7.2	Simultaneous multiple connections to the supply	· · · · · · · · · · · · · · · · · · ·	N	
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks		N	
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system		N	
- 701	Test voltage (V)	- 3.7 - C	N	
interpretation of the second	Measured touch current (mA):	25 10 11	N	
5	Max. allowed touch current (mA)		N	
5.1.8.2	Summation of touch currents from telecommunication networks	A STATE OF	N	
不到	a)EUT with earthed telecommunication ports:	-0	N	
and the column of the column o	b)EUT whose telecommunication ports have no reference to protective earth		N	

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

5.3	Abnormal operating and fault conditions		P
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	Р
5.3.2	Motors		N
5.3.3	Transformers	No transformers	N
5.3.4	Functional insulation	See appended table 5.3.	Р
5.3.5	Electromechanical components	- A	N
5.3.6	Audio amplifiers in ITE	E The State of State	N
5.3.7	Simulation of faults	Result see appended table 5.3.	Р
5.3.8	Unattended equipment		N
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	The River of the Real Property
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	The Manual of the State of the	N
	THE STATE OF THE S		All Control

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Page 21 of 49

@ 400 089 2118

	EN 60950-1	
Clause	Requirement – Test Result – Remark	Verdict
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	
6.1.1	Protection from hazardous voltages	
6.1.2	Separation of the telecommunication network from earth	
6.1.2.1	Requirements	N N
	Test voltage (V):	# 1 1 m
- TIME	Current in the test circuit (mA):	C 32
6.1.2.2	Exclusions:	N

6.2	2 Protection of equipment users from overvoltages on telecommunication networks		N
6.2.1	Separation requirements	** CO	N
6.2.2	Electric strength test procedure	CO.	N
6.2.2.1	Impulse test		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):	· · · · · · · · · · · · · · · · · · ·	
-11	Current limiting method:	C. C.	

7	CONNECTION TO CABLE DISTRIBUTION SYSTE	MS	N
7.1	General	拉那 环	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	Pac. Fac.	N
7.3	Protection of equipment users from overvoltages on the cable distribution system	T. T. B. T. S. T.	N
7.4	Insulation between primary circuits and cable distribution systems	See N	N
7.4.1	General		N N
7.4.2	Voltage surge test	也	N
7.4.3	Impulse test	C \$	N

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Page 22 of 49

EN 60950-1				
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 ed exceeding 18 kg, and of stationary equipment (see		N	
A.1.1	Samples :::			
of Global	Wall thickness (mm)	指		
A.1.2	Conditioning of samples; temperature (°C):		N	
A.1.3	Mounting of samples	-C	N	
A.1.4	Test flame (see IEC 60695-11-3)	C NO D	N	
A 5 '	Flame A, B, C or D:			
A.1.5	Test procedure	· · · · · · · · · · · · · · · · · · ·	N	
A.1.6	Compliance criteria		N	
F The con	Sample 1 burning time (s):	20		
HISTORY.	Sample 2 burning time (s):			
30	Sample 3 burning time (s):			
A.2	Flammability test for fire enclosures of movable ed exceeding 18 kg, and for material and component 4.7.3.2 and 4.7.3.4)		N	
A.2.1	Samples, material:	45.00		
7	Wall thickness (mm):			
A.2.2	Conditioning of samples	-0" 60"	N	
A.2.3	Mounting of samples:	10	N	
A.2.4	Test flame (see IEC 60695-11-4)		N	
0	Flame A, B or C:	环境 一号 状态		
A.2.5	Test procedure	-0 -0	N	
A.2.6	Compliance criteria	10	N	
etation .	Sample 1 burning time (s):			
170	Sample 2 burning time (s):	The Barrier Market and Control		
	Sample 3 burning time (s):	43 CO .		
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8	0. 50	N	
3	Sample 1 burning time (s):	· 电型 不电		
A	Sample 2 burning time (s):	The same of the sa		
格型	Sample 3 burning time (s):	60		
A.3	Hot flaming oil test (see 4.6.2)		N	
A.3.1	Mounting of samples	不是 不是	N	
A.3.2	Test procedure	4 3 4 3	N	

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Page 23 of 49

	La Via	EN 60950-1			
Clause	Requirement – Test		Result – Remark		Verdict
A.3.3	Compliance criterion		工 也 地	拉测	N

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	CONDITIONS (see 4.7.2.2 and	N
B.1	General requirements	10000000000000000000000000000000000000	N
	Position:	E Francisco	
- 100	Manufacturer	-C	
Cataphana	Туре:	C N	
A 8	Rated values:		
B.2	Test conditions	超型 不是一	N Sandara N
B.3	Maximum temperatures		N
B.4	Running overload test	- CO - FO	N
B.5	Locked-rotor overload test	11 11	N
10	Test duration (days):	The State of the S	
	Electric strength test: test voltage (V):	\$3.00 A	
B.6	Running overload test for d.c. motors in secondary circuits	No To	N
B.6.1	General	**	N
B.6.2	Test procedure	The state of the s	N
B.6.3	Alternative test procedure	60 - 60	N
B.6.4	Electric strength test; test voltage (V)		N
B.7	Locked-rotor overload test for d.c. motors in second	dary circuits	N
B.7.1	Test procedure		N
B.7.2	Alternative test procedure; test time (h):	- CO - CO	N
B.7.3	Electric strength test		_M N
B.8	Test for motors with capacitors	17	N
B.9	Test for three-phase motors	· · · · · · · · · · · · · · · · · · ·	N
B.10	Test for series motors	C** \GU \	N
- 5	Operating voltage (V):		

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N
AL THE	Position:	No transformers	
Old Complia	Manufacturer:	100	
	Type:	大地 大地	
	Rated values:	The state of the s	

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Page 24 of 49

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
~(Method of protection:	· · · · · · · · · · · · · · · · · · ·		
C.1	Overload test	The state of the s	N	
C.2	Insulation	- C - CO	N	
The term	Protection from displacement of windings:	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 👊

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

FF	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES	N
1	(see 2.10)	J. 1

G	ANNEX G, ALTERNATIVE METHOD FOR DETER	MINING MINIMUM CLEARANCES	N
G.1	Clearances	1 200	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):	60, 00	N
G.2.1	AC mains supply		N
G.2.2	DC mains supply	1 1	N
G.2.3	Unearthed DC mains supply:	T. T	N
G.2.4	Battery operation:	- CO - CO	N
G.3	Determination of telecommunication network transient voltage (V):		ill N
G.4	Determination of required withstand voltage (V) .:	The Barrier State of the State	N
G.4.1	Mains transients and internal repetitive peaks:	4.3	N
G.4.2	Transients from telecommunication networks:	C " E	N
G.4.3	Combination of transients		₹N.
G.4.4	Transients from cable distribution systems	The state of the s	N
G.5	Measurement of transient levels (V)	- 100 N	N
Correlation	a) Transients from a mains supply	100	N
	For an a.c. mains supply		N 🦛
11/	For a d.c. mains supply	The state of the s	N
	b) Transients from a telecommunication network	. E. C. S.	N

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Page 25 of 49

	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
G.6	Determination of minimum clearances	10000000000000000000000000000000000000	N
-		5 T. Jan	Tullon of Global
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)	0 20 20	N
五 TA 100	-C" -C"		all
Jan at Co	ANNEX J, TABLE OF ELECTROCHEMICAL PO	OTENTIALS (see 2.6.5.6)	N
	Metal used	大學 一章子	
i illi		- 1 - CO	30
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 a	nd 5.3.7)	N
<.1	Making and breaking capacity		N.
K.2	Thermostat reliability; operating voltage (V)	K B. T.	N
K.3	Thermostat endurance test; operating voltage (V)	CC SCO	N
K.4	Temperature limiter endurance; operating voltage (V)		N
K.5	Thermal cut-out reliability		N
K.6	Stability of operation		N
李 孙。	C. C. N		- July
L	ANNEX L, NORMAL LOAD CONDITIONS FOR BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)		Р
L.1	Typewriters	-0"	N
L.2	Adding machines and cash registers	10.	N
L.3	Erasers		N
L.4	Pencil sharpeners	不是 "	N
L.5	Duplicators and copy machines	- C - CO	N
L.6	Motor-operated files	100 500	N
L.7	Other business equipment	T. 18	P
		Po The Barrier The Committee of the Comm	-1
М	ANNEX M, CRITERIA FOR TELEPHONE RING	ING SIGNALS (see 2.3.1)	N
M.1	Introduction	-O - E	N
M.2	Method A	711	J.N.
M.3	Method B	T T T T	N
M.3.1	Ringing signal		N
M.3.1.1	Frequency (Hz)	- GO	
M 2 1 2	Voltage (V)		

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Voltage (V):

Cadence; time (s), voltage (V):

Single fault current (mA):

No.16 E

AIGC 8

M.3.1.2

M.3.1.3

M.3.1.4



Page 26 of 49

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
M.3.2	Tripping device and monitoring voltage:	大樓 一樓 那	N	
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N	
M.3.2.2	Tripping device	100 10	N	
M.3.2.3	Monitoring voltage (V):		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	0	N	
N.2	IEC 60065 impulse test generator		3 N	

P	ANNEX P, NORMATIVE REFERENCES	Р
200		1.40

Q	ANNEX Q, Voltage dependent resistors (VDRS) (see 1.5.9.1)	N
	-Preferred climatic categories:	N
	-Maximum continuous voltage:	N
学习	-Combination pulse current:	- N N
	Body of the VDR Test according to IEC 60695- 11-5:	N
A THE	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)	100 " FOO	N
R.2	Reduced clearances (see 2.10.3)	T 1	N

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)			
S.1	Test equipment	: O **	N	
S.2	Test procedure	70	N	
S.3	Examples of waveforms during impulse testing	不整 天天	N	

T. T.	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER	N
31 010	(see 1.1.2)	5

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Page 27 of 49

	EN 60950-	T	I
Clause	Requirement – Test	Result – Remark	Verdict
) SC	ANNEX U, INSULATED WINDING WIRES FOR INSULATION (see 2.10.5.4)	USE WITHOUT INTERLEAVED	F
-	I The State of The Boundary		Altore
V	ANNEX V, AC POWER DISTRIBUTION SYSTEM	IS (see 1.6.1)	N
V.1	Introduction	18	N
V.2	TN power distribution systems	上海 二年流	N
700	W 4 7 2 1		60
W	ANNEX W, SUMMATION OF TOUCH CURRENT	S	N
W.1	Touch current from electronic circuits		N
W.1.2	Earthed circuits	· 松型	N
W.2	Interconnection of several equipments		N
W.2.1	Isolation	- CO "	N
W.2.2	Common return, isolated from earth		N
W.2.3	Common return, connected to protective earth	张 橙	N
-	to the second	- 1 To 1 T	30
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRA	ANSFORMER TESTS (see clause	N
X.1	Determination of maximum input current	T. 梅	N
X.2	Overload test procedure	- 1 The state of t	N
1111	THE STATE OF THE S	- CC - CC	110
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN	IG TEST (see 4.3.13.3)	N
Y.1	Test apparatus:	一侧 压度点	N
Y.2	Mounting of test samples:	承	N
Y.3	Carbon-arc light-exposure apparatus:	20 20	N
Y.4	Xenon-arc light exposure apparatus:		N
- (O E	测示	ompliance.
z	ANNEX Z, OVERVOLTAGE CATEGORIES(see2	.10.3.2 and Clause G.2)	N
	The state of the s	-	0
AA .	ANNEX AA, MANDREL TEST (see 2.10.5.8)	30	N
C	200 500 50		The Town
ВВ	ANNEX BB, CHANGES IN THE SECOND EDITION	ON	
1111	工艺	C* \0	
CC	ANNEX CC, Evaluation of integrated circuit (IC	c) circuit limiters	N
CC.1	General	发现 接頭	N
CC.2	Test program 1	The state of the s	N

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Page 28 of 49

EN 60950-1					
Clause	Requirement – Test	Result – Remark	Verdict		
CC.3	Test program 2	10000000000000000000000000000000000000	N		
CC.4	Test program 3	The state of the s	N		
CC.5	Compliance:	-0 -0	N		

DD	ANNEX DD, requirements for the mounting means of rack-mounted equipment			
DD.1	张	N		
DD.2	Mechanical strength test, variable N:	18 TO 1	N	
DD.3	Mechanical strength test, 250N, including end stops:	O. E. E.	N	
DD.4	Compliance	· 电型	Ν	

EE JAN	ANNEX EE, Household and home/office docume	ent/media shredders	Ν
EE.1	General		N
EE.2	Marking and instructions	T. E.	N
	Use of markings or symbols:	\$ 3 C S	N
手环	Information of user instructions, maintenance and/or servicing instructions:	P. P. C.	N
EE.3	Compliance:	Tr Manager Tr	N
EE.4	Disconnection of power to hazardous moving parts:	-C***	N
and lane	Use of markings or symbols:	10	N
EE.5	Protection against hazardous moving parts	11 11 11 11 11 11 11 11 11 11 11 11 11	N
0	Test with test finger (figure 2A):	The transfer of the state of th	N
, T.	Test with wedge probe (figure EE1 and EE2):	-0" 60	N

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Page 29 of 49

				EN 60950-1			
Clause	Requiren	nent – Test			Result – Re	mark	Verdict
< C	EN 60950	D-1:2006/A11:2	009/A1:2010	/A12:2011 – CEN	NELEC COMM	ON MODIFICATION	40 100 0000
Contents (A2:2013)	That the following difference.						P
General		I the —country g to the following		reference docur	nent (IEC 6095	50-1:2005)	P
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	Little .
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	2 Th to
	2.2.3	Note	2.2.4	Note	2.3.2	Note	- C3
	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	T. V
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	- B. T.
	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	0
	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	711
	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	~GC
	G.2.1	Note 2	Annex H	Note 2			
General (A1:2010)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A1:2010) according to the following list:					P	
	1.5.7.1	Note	Th. 1	6.1.2.1	Note 2		Andrew of Goden
A 1	6.2.2.1	Note 2	T dodon	EE.3	Note	70	
General (A2:2013)	according 2.7.1 6.2.2.	g to the following Note * Note	ng list:	eference docume 2.10.3.1 Modification rem	Note 2	-1:2005/A2:2013) ed.	- C ³
I.1.1 (A1:2010)	Replace NOTE 3 T multimedia	the text of NOThe requirements	TE 3 by the fo of EN 60065 e IEC Guide 1		o meet safety re	quirements for	E TA TO THE

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Page 30 of 49

EN 60950-1						
Clause	Requirement – Test	Result – Remark	Verdict			
~ (EN 60950-1:2006/A11:2009/A1:2010/A12:2011 - CE	NELEC COMMON MODIFICATIONS	人格。			
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure The apparatus shall be so designed and constructed used for its intended purpose, either in normal operat conditions, particularly providing protection against expressures from headphones or earphones. NOTE Z1 A new method of measurement is describe equipment: Headphones and earphones associated with portable sound pressure level measurement methodology and General method for "one package equipment", and in equipment: Headphones and earphones associated waximum sound pressure level measurement methodology and Maximum sound pressure level measurement methodology and School and	as to present no danger when ting conditions or under fault exposure to excessive sound and in EN 50332-1, Sound system and limit considerations - Part 1: an EN 50332-2, Sound system with portable audio equipment - dology and limit considerations -	N			
(A12:2011)	manufacturers. In EN 60950-1:2006/A12:2011 Delete the addition of 1.3.Z1 / EN 60950-1:2006 Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:	2010	N			
1.5.1	Add the following NOTE: NOTE Z1 The use of certain substances in electrical restricted within the EU: see Directive 2002/95/EC	2.C NO	P			
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instructions shall include a warning that excessive sound pressure from earphones and headphones can cause hearing loss.					
1.7.2.1 (A12.2011)	In EN 60950-1:2006/A12:2011	System.	N			
	Zx Protection against excessive sound pressure from	personal music players	N			

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Page 31 of 49

	EN 609	50-1	
Clause	Requirement – Test	Result – Remark	Verdict
- (EN 60950-1:2006/A11:2009/A1:2010/A12:201	I - CENELEC COMMON MODIFICATIONS	S (18)
T. T. S.	Zx.1 General This sub-clause specifies requirements for profrom personal music players that are closely or requirements for earphones and headphones players.	oupled to the ear. It also specifies	N
	 A personal music player is a portable equipme is designed to allow the user to listen to reco primarily uses headphones or earphones the ears; allows the user to walk around while in use. NOTE 1 Examples are hand-held or body-work players, mobile phones with MP3 type features. 	orded or broadcast sound or video; and at can be worn in or on or around the on portable CD players, MP3 audio	
	A personal music player and earphones or heapersonal music players shall comply with the r	equirements of this sub-clause.	
	The requirements in this sub-clause are valid for the requirements do not apply: - while the personal music player is connected while the headphones or earphones are not NOTE 2 An external amplifier is an amplifier with player or the listening device, but which is intermusic player.	I to an external amplifier; or	
	The requirements do not apply to: hearing aid equipment and professional e NOTE 3 Professional equipment is equipment products sold through normal electronics store equipment.	sold through special sales channels. All	
THE THE PARTY OF	- analogue personal music players (personal reprocessing of the sound signal) that are breaded. 2015. NOTE 4 This exemption has been allowed been and it is expected that within a few years it will be extended to other technologies.	ought to the market before the end of cause this technology is falling out of use	N
	For equipment which is clearly designed or into of EN 71-1 apply.	ended for use by young children, the limits	

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Page 32 of 49

EN 60950-1				
Clause	Requirement – Test		Result – Remark	Verdict
~ (EN 60950-1:2006/A11:2009/A1:2010	/A12:2011 – CENE	LEC COMMON MODIFICAT	TIONS
三东龙	Zx.2 Equipment requirements No safety provision is required for equipment provided as a package where the acoustic output LAeq, "programme simulation noise" as	je (personal music T is ≤ 85 dBA mea	player with its listening devic sured while playing the fixed	e),
	- a personal music player provided we listening device, where the electric EN 50332-2, while playing the fix EN 50332-1. NOTE 1 Wherever the term acoustic	vith an analogue el rical output is ≤ 27 ked "programme si	ectrical output socket for a mV measured as described i mulation noise" as described	in
	equivalent sound pressure level LAe	q,T is meant. See	also Zx.5 and Annex Zx.	
	All other equipment shall: a) protect the user from unintentional above; and	acoustic outputs e	exceeding those mentioned	,5-1
	 b) have a standard acoustic output le automatically return to an output le power is switched off; and 	vel not exceeding	those mentioned above wher	D (0)
	c) provide a means to actively inform the equipment is operated with an Any means used shall be acknowled operation which allows for an acou	acoustic output exc edged by the user I	ceeding those mentioned abordering activating a mode of	ove.
	acknowledgement does not need to cumulative listening time; and NOTE 2 Examples of means include	o be repeated more	e than once every 20 h of	56 1
	always required. NOTE 3 The 20 h listening time is the often and how long the personal must	e accumulative list	ening time, independent how	7
	 d) have a warning as specified in Zx e) not exceed the following: 1) equipment provided as a packa 	.3; and		c
	output shall be ≤ 100 dBA measure noise" described in EN 50332-1; and 2) a personal music player provide	d while playing the	fixed "programme simulation	C ¹
	listening device, the electrical output 50332-2, while playing the fixed "prog	shall be ≤ 150 mV ramme simulation	measured as described in E noise" described in EN 50332	N -1.
	For music where the average sound duration of the song is lower than the noise, the warning does not need to	e average produce be given as long as	d by the programme simulati s the average sound pressure	on e of
	the song is below the basic limit of 85 song. NOTE 4 Classical music typically has which is much lower than the everyone.	s an average soun	d pressure (long term LAeq, ī	7)
	which is much lower than the average player is capable to analyse the song noise, the warning does not need to the song is below the basic limit of 8.	g and compare it w be given as long a	ith the programme simulatior	1
	For example, if the player is set with average music level of the song is or ask an acknowledgement as long as the basic limit of 85 dBA.	the programme sirnly 65 dBA, there is	s no need to give a warning o	or
	THE DASIC HITHLOLOG UDA.			10

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Page 33 of 49

	E	N 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
~ (EN 60950-1:2006/A11:2009/A1:2010/A12	2:2011 – CENELEC COMMON MODIFICATIONS	5 人性。
	manual and shall consist of the following the symbol of Figure 1 with a mini the following wording, or similar: "To prevent possible hearing damage, do periods."	mum height of 5 mm; and o not listen at high volume levels for long	N
	Figure 1 – Warnin	g label (IEC 60417-6044)	
	Alternatively, the entire warning may be use, when the user is asked to acknowle	given through the equipment display during dge activation of the higher level.	
attended of the	Zx.4 Requirements for listening device	es (headphones and earphones)	N
DC.	simulation noise" described in EN 50332 This requirement is applicable in any mo or passive), including any available setting	q,T, the input voltage of the fixed "programme	N
- FME	150 mV.		
	50332-1 (and respecting the digital interf standard exists that specifies the equival of the listening device shall be ≤ 100 dB. This requirement is applicable in any mo including any available setting (for examp sound feature like equalization, etc.).	"programme simulation noise" described in EN ace standards, where a digital interface ent acoustic level), the acoustic output LAeq,TA. de where the headphones can operate, ple built-in volume level control, additional	N
	NOTE An example of a wired listening de	evice with digital input is a USB headphone.	
	described in EN 50332-1; and - respecting the wireless transmission st that specifies the equivalent acoustic - with volume and sound settings in the level control, additional sound feature of positions that maximize the measure	e playing the fixed programme simulation noise tandards, where an air interface standard exists level; and listening device (for example built-in volume e like equalization, etc.) set to the combination ured acoustic output for the abovementioned oustic output LAeq,T of the listening device shall	N
	NOTE An example of a wireless listening	device is a Bluetooth headnhone	

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Page 34 of 49

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
~ C	EN 60950-1:2006/A11:2009/A1:2010/A12:2011 - CEN	IELEC COMMON MODIFICATIONS	人相
The state of the s	Zx.5 Measurement methods Measurements shall be made in accordance with EN applicable. Unless stated otherwise, the time interval NOTE Test method for wireless equipment provided with defined.	T shall be 30 s.	N
2.7.1 3G	Replace the subclause as follows: Basic requirements To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;		K M
≥C	 b) for components in series with the mains input to the cord, appliance coupler, r.f.i. filter and switch, short-ci be provided by protective devices in the building insta c) it is permitted for PLUGGABLE EQUIPMENT TYPE CONNECTED EQUIPMENT, to rely on dedicated ove protection in the building installation, provided that the circuit breakers, is fully specified in the installation ins 	rcuit and earth fault protection may llation; E B or PERMANENTLY rcurrent and short-circuit means of protection, e.g. fuses or	N
The state of the s	If reliance is placed on protection in the building install shall so state, except that for PLUGGABLE EQUIPME installation shall be regarded as providing protection is wall socket outlet.	lation, the installation instructions ENT TYPE A the building	
.7.2	This subclause has been declared 'void'.	-0"	N
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or "60227 IEC 53" by "H05 VV-F or	H03 VVH2-F"; H05 VVH2-F2".	N
	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 wo condition a). In NOTE 1, applicable to Table 3B, delete the second	rds "in some countries" in	
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 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		N C

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Page 35 of 49

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	EN 60	950-1	
Clause	Requirement – Test	Result – Remark	Verdict
~ C	EN 60950-1:2006/A11:2009/A1:2010/A12:20	11 - CENELEC COMMON MODIFICATIONS	人也。
4.3.13.6 (A1:2010)	Interiace the existing NOTE by the following.		N N
	1999/519/EC: Council Recommendation on t public to electromagnetic fields 0 Hz to 300 G		
all residence of Co.	2006/25/EC: Directive on the minimum health exposure of workers to risks arising from phy		The state of the s
	Standards taking into account mentioned Redemonstrate compliance with the applicable		N
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the Ol shall not exceed 1 µSv/h (0,1 mR/h) (see NO level. Replace the notes as follows: NOTE These values appear in Directive 96/2 Delete NOTE 2.	TE). Account is taken of the background	N. A. S.
Bibliograph y	Additional EN standards.	是 · · · · · · · · · · · · · · · · · · ·	C.

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS	_
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		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
C *	ZB ANNEX (normative)	SPECIAL NATIONAL CONDITIONS (EN)	拉那
1.2.4.1		I appliances (see 3.2.1.1) may be provided with a tions when inserted into Danish socket-outlets.	N
1.2.13.14	In Norway and Sweden, for require	ements see 1.7.2.1 and 7.3 of this annex.	N
1.5.7.1	PLUGGABLE EQUIPMENT TYPE	resistors bridging BASIC INSULATION in CLASS I A must comply with the requirements in 1.5.7.1. In sed, the resistor must withstand the resistor test in	N -G
1.5.8	In Norway , due to the IT power sys required to be rated for the applicat	ttem used (see annex V, Figure V.7), capacitors are ble line-to-line voltage (230 V).	N
1.5.9.4	In Finland , Norway and Sweden , equipment as defined in 6.1.2.2 of t	the third dashed sentence is applicable only to his annex.	N N

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Page 36 of 49

EN 60950-1				
Clause	Requirement – Test Result -	- Remark	Verdict	
~C	ZB ANNEX (normative) SPECIAL NATIONA	L CONDITIONS (EN)	16 地	
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.		N	
	The marking text in the applicable countries shall be as	follows:		
	In Finland: "Laite on liitettävä suojakoskettimilla varuste	ttuun pistorasiaan"		
	In Norway: "Apparatet må tilkoples jordet stikkontakt"	- GO		
	In Sweden: "Apparaten skall anslutas till jordat uttag"			
	In Norway and Sweden , the screen of the cable distribute earthed at the entrance of the building and there is normal system within the building. Therefore the protective earth need to be isolated from the screen of a cable distribution	nally no equipotential bonding hing of the building installation on system.		
	It is however accepted to provide the insulation external adapter or an interconnection cable with galvanic isolate e.g. a retailer.			
	The user manual shall then have the following or similar Swedish language respectively, depending on in what c intended to be used in:			
	"Equipment connected to the protective earthing of the lamains connection or through other equipment with a cone and to a cable distribution system using coaxial cable create a fire hazard. Connection to a cable distribution sprovided through a device providing electrical isolation to range (galvanic isolator, see EN 60728-11)."	nnection to protective earthing , may in some circumstances system has therefore to be		
CC	NOTE In Norway, due to regulation for installations of continuous in Sweden, a galvanic isolator shall provide electrical internal insulation shall withstand a dielectric strength of 1,5 kV min.	sulation below 5 MHz. The	N.	
	Translation to Norwegian (the Swedish text will also be "Utstyr som er koplet til beskyttelsesjord via nettplugg og utstyr – og er tilkoplet et kabel-TV nett, kan forårsake br skal det ved tilkopling av utstyret til kabel-TV nettet instamellom utstyret og kabel- TV nettet."	g/eller via annet jordtilkoplet annfare. For å unngå dette		
	Translation to Swedish:	300		
GC *	"Utrustning som är kopplad till skyddsjord via jordat väg utrustning och samtidigt är kopplad till kabel-TV nät kan brand. För att undvika detta skall vid anslutning av utrus galvanisk isolator finnas mellan utrustningen och kabel-	i vissa fall medfőra risk főr stningen till kabel-TV nät	The Management	
1.7.2.1 (A2:2013)	In Denmark , CLASS I PLUGGABLE EQUIPMENT TYP other equipment or a network shall, if safety relies on confidence if surge suppressors are connected between the networ parts, have a marking stating that the equipment must be mains socket-outlet.	E A intended for connection to connection to protective earth or ck terminals and accessible be connected to an earthed	N	
	The marking text in Denmark shall be as follows: In De skal tilsluttes en stikkontakt med jord, som giver forbind		C	

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Page 37 of 49

	EN 60950-1				
Clause	Requirement – Test Result – Remark	Verdict			
\O	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)	不相			
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.				
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 A STATE OF THE S			
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.				
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.				
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.				
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.				
2.10.5.13					
3.2.1.1	In Switzerland , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A	N SC			
	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				

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No.16 E



Page 38 of 49

@ 400 089 2118

	EN	60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
√ G	ZB ANNEX (normative) SPECI	AL NATIONAL CONDITIONS (EN)	不恒
3.2.1.1	In Denmark , supply cords of single-phase exceeding13 A shall be provided with a plu Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with sock intended to be used in locations where pro according to the wiring rules shall be provisheet DK 2-1a or DK 2-5a.	ag according to the Heavy Current et-outlets with earth contacts or which are	N
E THE	If poly-phase equipment and single-phase exceeding 13 A is provided with a supply of accordance with the Heavy Current Regula	cord with a plug, this plug shall be in	
3.2.1.1	In Spain , supply cords of single-phase equexceeding 10 A shall be provided with a pl		The N
	Supply cords of single-phase equipment has shall be provided with a plug according to		
	UNE 20315:1994.	stection against indirect contact is required ided with a plug in accordance with standard	
看	If poly-phase equipment is provided with a accordance with UNE-EN 60309-2.	supply cord with a plug, this plug shall be in	
3.2.1.1	flexible cable or cord and plug, shall be fitt Statutory Instrument 1768:1994 - The Plug 1994, unless exempted by those regulation	et conforming to BS 1363 by means of that ed with a 'standard plug' in accordance with gs and Sockets etc. (Safety) Regulations ns. 8:1994 and essentially means an approved	N N
3.2.1.1	In Ireland , apparatus which is fitted with a connected to a mains socket conforming to	flexible cable or cord and is designed to be I.S. 411 by means of that flexible cable or lug in accordance with Statutory Instrument f Ireland (section 28) (13 A Plugs and	N
3.2.4	In Switzerland , for requirements see 3.2.1	.1 of this annex.	N
3.2.5.1	In the United Kingdom , a power supply confor equipment with a rated current over 10		N
3.3.4	by terminals for equipment with a RATED 13 A is:	ductor sizes of flexible cords to be accepted CURRENT of over 10 A up to and including	J. N.
4.0.0	• 1,25 mm² to 1,5 mm² nominal cross-sect		not Glob
4.3.6	with BS 1363 part 1:1995, including Amenthe plug part of DIRECT PLUG-IN EQUIPM 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13 12.17 is performed at not less than 125 °C		NG NG

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Page 39 of 49

@ 400 089 2118

	EN 609	50-1		
Clause	Requirement – Test	Result – Remark	Verdict	
< C	ZB ANNEX (normative) SPECIAL	NATIONAL CONDITIONS (EN)	不懂	
4.3.6	In Ireland , DIRECT PLUG-IN EQUIPMENT is devices shall comply with Statutory Instrumen Authority of Ireland (Section 28) (Electrical pludomestic use) Regulations, 1997.	t 526:1997 - National Standards	N	
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;			
6.1.2.1	STATIONARY PERMANENTLY CONNECT	ED EQUIPMENT.	1	
(A1:2010)	In Finland , Norway and Sweden , add the foll paragraph of the compliance clause: If this insulation is solid, including insulation for least consist of either - two layers of thin sheet material, each of which below, or - one layer having a distance through insulation	orming part of a component, it shall at ich shall pass the electric strength test	G ³	
	the electric strength test below. Alternatively for components, there is no distathe insulation consisting of an insulating computation that CLEARANCES and CREEPAGE DISTANDASSES the electric strength test in accordance in addition	oound completely filling the casing, so NCES do not exist, if the component e with the compliance clause below and		
	 passes the tests and inspection criteria of 2. kV multiplied by 1,6 (the electric strength test kV), and 			
	- is subject to ROUTINE TESTING for electric test voltage of 1,5 kV.	strength during manufacturing, using a		
	It is permitted to bridge this insulation with an It is permitted to bridge this insulation with a c 14:2005, subclass Y2.	apacitor complying with EN 60384-		
	A capacitor classified Y3 according to EN 603 under the following conditions:	84-14:2005, may bridge this insulation		
	- the insulation requirements are satisfied by defined by EN 60384-14, which in addition to test of 2,5 kV defined in EN 60950-1:2006, 6.2	the Y3 testing, is tested with an impulse		
	- the additional testing shall be performed on a 60384-14:	all the test specimens as described in EN		
	- the impulse test of 2,5 kV is to be performed 14, in the sequence of tests as described in E			

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Page 40 of 49

		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
~ C	ZB ANNEX (normative	e) SPECIAL NATIONAL CONDITIONS (EN)	不是
6.1.2.2	connected equipment, plu intended to be used in a RESTRIC bonding has been applied, e.g. in provision for a permanently connected	, the exclusions are applicable for PERMANENTLY JGGABLE EQUIPMENT TYPE B and equipment CTED ACCESS LOCATION where equipotential a telecommunication centre, and which has ected PROTECTIVE EARTHING CONDUCTOR and e installation of that conductor by a SERVICE	N
7.2	annex.	, for requirements see 6.1.2.1 and 6.1.2.2 of this N NETWORK in 6.1.2 being replaced by the term I.	3ON
7.3	In Norway and Sweden, for requi	irements see 1.2.13.14 and 1.7.2.1 of this annex.	N
7.3	In Norway, for installation condition	ons see EN 60728-11:2005.	N

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Page 41 of 49

TABLE: list of critical components			Р
. Manufacturer/ trademark	Type/model	Technical data	Mark(s) of conformity
ADVANCED SURGETECH MATERIALS LTD	06 120	DC32V, 2A	UL E355868
Various	Various	V-1, 130°C	UL ZPMV2
KINGFA SCI & TECH CO LTD	JH8-R20T05 (ddd)	Min. 1.0mm, V-1, 80°C	UL E171666
	. Manufacturer/ trademark ADVANCED SURGETECH MATERIALS LTD Various	. Manufacturer/ trademark Type/model ADVANCED SURGETECH 06 120 Various Various KINGEA SCL& TECH COLID JH8-R20T05	. Manufacturer/ trademark Type/model Technical data ADVANCED SURGETECH 06 120 DC32V, 2A Various Various V-1, 130°C KINGEA SCL& TECH COLID JH8-R20T05 Min 1 0mm V-1 80°C

1.6.2	TABLE: 6	electrical data (i	n normal cor	nditions)	不性	Tr. Tr. Tr. P
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status
Model: RU1	01R-W-E-V	1.0	To di Cione	20	10	
12	0.22	GO"	2.64			Normal operation
Model: UHF	1-5E			11/1	- F	E The Carried Carried
12	0.21	- 1	2.52	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	To do con	Normal operation
Note(s):	Si pinco	Manufacture of Colors	C. Barriera	\C	0	Co Praga

2.1.1.5c)1)	TABLE: m	nax. V, A, VA test	10000000000000000000000000000000000000	· 学	N N
Voltage (rate	ed) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
To Complete	F of Court	-C"- C	C - 70		
Note(s):		10 %	311	人也	不是

2.1.1.5c)2)	TABLE: store	d energy	The other	C. Marine	- 60		3	N
Capacitance	e C (µF)		Voltage	e U (V)			Ener	gy E (J)
	30		_	ĮĮĮ.	45. 70	ė ė	E The To	展 等
Note(s):	70	位测	22	The Committee of the Co	手机	- Ci	No.	40

2.2 TABLE: evaluation of voltage limiting compe	onents in SELV circ	uits	N ₂
Component (magazired between)	max. voltage (V)	Voltage Limiting	
Component (measured between)	Vpeak	Vd.c.	Components
T. B. C. C.		- 1	
Fault test performed on voltage limiting components	Voltage measured	d (V) in SELV circuits	s (V peak or V d.c.)
	A	- F Marie	-0

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Page 42 of 49

Note	(0)	۱٠_
MOLE	0). –

2.5 TABLE: limited power source measu	ırement	不起	The Paris	N
Measured Uoc (V) with all load circuits	Isc (A)		VA	
disconnected:	Meas.	Limit	Meas.	Limit
Note(s):	不是	The state of the s	C 3	a.C

2.10.2 TABLE: Working	g voltage measurement		and the state of t
Location	RMS voltage (V)	Peak voltage (V)	Comments
- I		F down F down	CO = CO
- F. The comment	C	60	- 1

2.10.3 and 2.10.4	TABLE: clearance and creepage distance measurements							
Clearance distance do	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		E 700	F Thomas	The state of the s		
:01	4	The Company	-7	-0	Additional	4G :-	10	

2.10.5	TABLE: distance through insulation measurements						
Distance th	nrough insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)		
Note(s):		10000000000000000000000000000000000000	不懂	The state of Green	- T		

4.3.8	TABLE: Batte	TABLE: Batteries							
The tests of not available	^f 4.3.8 are appli e	cable only v	when approp	riate batter	y data is		相测	4	N
Is it possible	e to install the b	attery in a r	everse pola	rity position	?	重要:	Green	C.	Р
张	Non-red	chargeable	batteries		F	Rechargeab	le batteries		
of Chapter	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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Page 43 of 49

		1750-7		F3 3 Y	1000			
· 基于	C B	The State of the S	CC.	NG	J*	T.) A
1	7 不是	A	B. W.	G B	K de de la constante de la con	· 学 环 · ·	-Ö	The state of the s
C.	distance of	The state of	1/6	2	100		9	Verdict
s	NG				No			Р
ne battery		不拉那	不恒	ing.	No	- 5	ation of Global	Р
me or expu	Ision of mo	Iten metal	Mary Care	- Ta	No	GO.		Р
- Electric strength tests of equipment after completion of tests								N
				- 10		457 700	- 3	Clobal Com
	Mar County	ne battery ame or expulsion of mo	ne battery ame or expulsion of molten metal	ne battery ame or expulsion of molten metal	ne battery ame or expulsion of molten metal	ne battery No ame or expulsion of molten metal No	ne battery No me or expulsion of molten metal No	ne battery ne or expulsion of molten metal No

4.3.8 TABLE: Batteries	C P
Battery category	
Manufacturer	The state of the s
Type/model	
Voltage, Capacity	- GO - CO
Circuit protection diagram	
N/A	-C
MARKINGS AND INSTRUCTIONS (1.7.13)	CO - CO
Location of replaceable battery	
Language(s)	利
Close to the battery:	I
In the servicing instructions	CO - CO
In the operating instructions:	,
Note(s):	

4.5	TABLE: maximum temperatures	***************************************	Р
	Test voltage (V):	12VDC	
maximu	m temperature T of part/at:	T (°C)	allowed Tmax (°C)
Model: F	RU101R-W-E-V1.0	C NO	10
C5	- 83.00	74.5	105
L1 windi	ing	75.1	130
PCB nei	ra U2	78.4	130

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AGC 8



Page 44 of 49

Internal plastic enclosure	不能	planting.		6	7.9	70	80
External plastic enclosure	The state of the s	10		6-	4.6		95
External metal enclosure				6	4.7	拉测	70
Model: UHF1-5E	校 测	43.7	A co	A Good	5 4	Good S	A Close
C5	Notice of the second	F of Calmin Comm	- 60	7.	4.1	100	105
L1 winding		74.9					
PCB nera U2			78.2				130
Internal plastic enclosure	小	mplanes.	Th the lines	80			
External plastic enclosure	The state of the s	- F. F.	d Gar	95			
External metal enclosure	~ C	,0	100	70			
Ambient				6	0.0	The state of the s	A dictional course
Temperature T of winding	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation Class
The deliberation The deliberation	The state of the s		5	CO.			-
Note: Having a specified maxim	um ambient	temperatu	re of 60°C		AL	AN THE	4 1

4.5.5	TABLE: ball pressure test of thermoplastic parts	2.C	119	N
# 1	allowed impression diameter (mm):			
Part		Test temperature(°C)		ion diameter mm)
Alte:	T.	-C* C*	1	100
Note(s): -	- # * - C * - C * - C * - C	10		

4.7	TABLE: Resis	tance to fire	A THE	校訓	· ·	P
F	art	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
The decision of the same	The state of the s		0		-	- M
Note(s): Ref	er to table 1.5.1			107	The The	TEL MAN - F

5.1	TABLE: touch current	measurement			N
Measured	between:		Measured(mA)	Limit(mA)	Comments/conditions
S	10-		- to 1	- 大程語	Mary of Control
Note(s):	W 100	1000000	学 孙	The state of the s	CO . CO

5.2	TABLE: electric strength tests and impulse tests	70	A TILL	N 🧃
Test volt	age applied between:	Test voltage (V)	Brea	akdown
	T. B	1 - C 3		-1

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No.16 E



Page 45 of 49

Note(s): --

Note: --

5.3	TABLE	: fault conditi	on tests			(程)	P
	ambiei	nt temperatur	e (°C)	. 10	The state of the s	24.2	
16. T	rated markings of power supply			:	40° CO		
Component	no.	Fault Test voltage (V) Test time Fuse no. Result					
U1 Pin 7-8		S-C	12	5min	F1	Fuse opened, no damage and haz	
U35 Pin 7-8	环鱼	S-C	12	5min	F1	No damage and hazards.	, in
U3 Pin 1-5	ph di	S-C	12	5min	F1	No damage and hazards.	Z The tompores
D1 S-C		12	5min	√ F1	No damage and hazards.		

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Attachment A Photos of product



Fig.1 – overview (RU101R-W-E-V1.0)

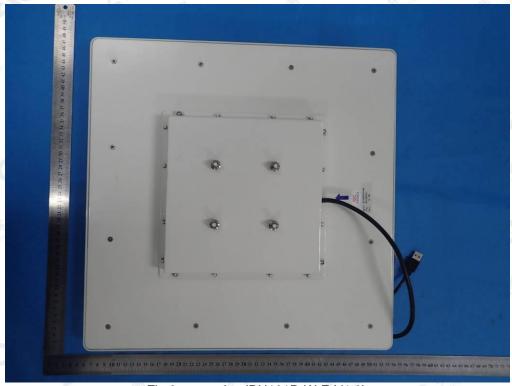


Fig.2 – overview(RU101R-W-E-V1.0)

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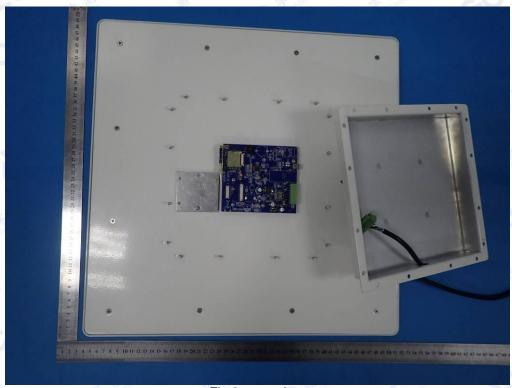


Fig.3 – partview

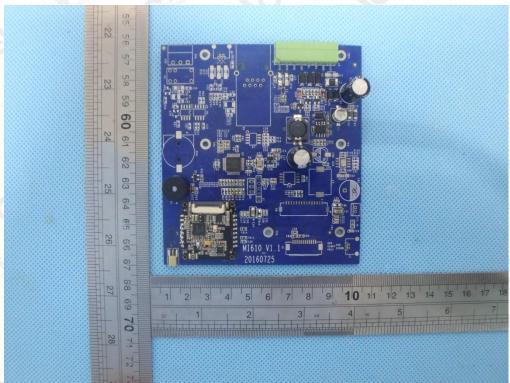


Fig.4 – partview

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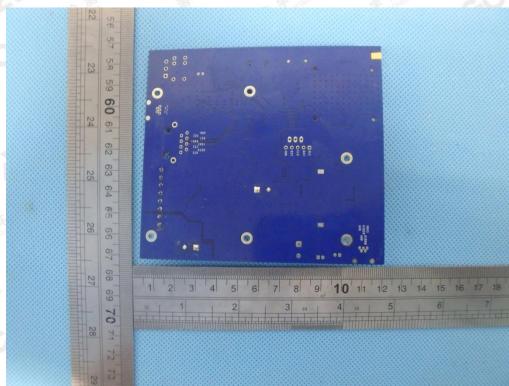


Fig.5 – partview

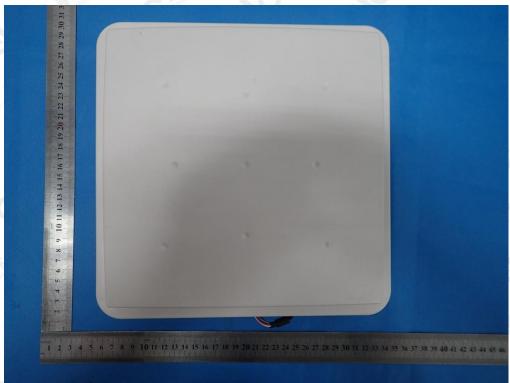


Fig.6 - overview(UHF1-5E)

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Page 49 of 49

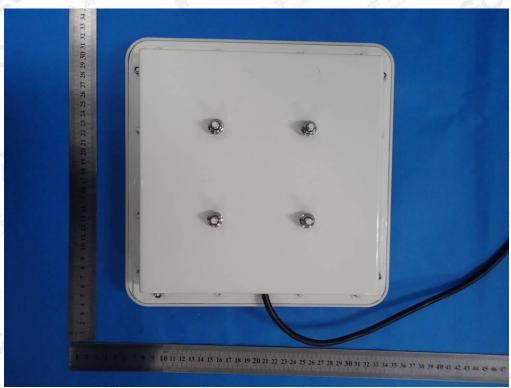


Fig.7 – overview(UHF1-5E)
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