

Safety Test Report

Report No.: AGC01180160501ES02

PRODUCT DESIGNATION **Power Supply**

BRAND NAME Csec

CS12F050200FGF **MODEL NAME**

CLIENT ATCOM TECHNOLOGY CO., LIMITED

DATE OF ISSUE May 19, 2016

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

REPORT VERSION V1.0

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

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TEST REPORT

EN 60950-1

Information technology equipment-Safety-Part 1: General requirements

Report Reference No. AGC01180160501ES02

Tested by (+ signature) Sara Li

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Approved by (+signature)

Solger Zhang

(Authorized Officer)

Date of issue May 19, 2016

Contents...... Total 48 pages.

Testing laboratory

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

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

Applicant

Name...... ATCOM TECHNOLOGY CO., LIMITED

Address FL2, Block3, Huangguan Industry Park #21 Tai Ran 9th Rd,

Futian, Shenzhen City, China

Manufacturer

3rd Building, No. 129 of 1st Industrial Area, LiSongLang Community,

GongMing Office, GuangMing New District, Shenzhen City, Guangdong,

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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Test item			
Product designation:	Power Supply		
Brand name:	Csec		
Test model:	CS12F050200FGF		
Series model:	N/A		
Rating(s)	Input: 100-240V~, 50/60Hz, 0.5A		
	Output: 5.0V=, 2.0A		
Test item particulars	. movable hand-held transportable		
Equipment mobility	☐stationary ☐for building-in ☐direct plug-in		
Connection to the mains	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		
	☐permanent connection ☐detachable power supply cord		
	☐non-detachable power supply cord		
	not directly connected to the mains		
Operating condition	. \(\subseteq \text{continuous} \)		
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 other		
Mains supply tolerance(%) or absolute values			
Tested for IT power systems	: □Yes ⊠No		
IT testing, phase-phase voltage(V)	: N/A		
Class of Equipment	. □Class I □Class II □Class III □not classified		
Considered current rating of protective of the 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 ob	ject: N (/A)		
Test item does meet the requirement	: P (ass)		
Test item does not meet the requirement	nt: F (ail)		
Testing			
Date of receipt of test item	: May 11, 2016		
Date(s) of performance of test	May 11 – May 18, 2016		

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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 Record:				
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	2016-05-19	Valid	Original report

General product information

The Travel Charger is direct plug-in type with integrated EN50075 plug and Class II product with plastic enclosure. It is intended for dry location use only.

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

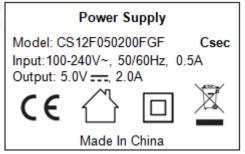
The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of 40 °C.

Summary of testing

The test item passed.

Copy of marking plates

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



Remark: the CE marking and WEEE symbol (if any) should be at least 5.0mm and 7.0mm respectively in height.

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
	27 57 6	* 14.3°	C 79.00
1 4	GENERAL		Р
779	7.7	- 43° C	7
1.5	Components		P
1.5.1	General	· .	# P
	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.	Р
1.5.3	Thermal controls	No any thermal controls.	N
1.5.4	Transformers	Transformer used is suitable for their intended application and comply with the relevant requirements of the standard.	P
1.5.5	Interconnecting cables	. O V	N
1.5.6	Capacitors bridging insulation	2	N
1.5.7	Resisters bridging insulation	No such components.	N
1.5.7.1	Resisters bridging functional, basic or supplementary insulation	477 677	N
1.5.7.2	Resisters bridging double or reinforced insulation between a.c. mains and other circuits		N
1.5.7.3	Resisters bridging double or reinforced insulation between a.c. mains antenna or coaxial cable	4,3	N
1.5.8	Components in equipment for IT power systems	57 67 LO	N
1.5.9	Surge suppressors	No such parts.	N
1.5.9.1	General		N
1.5.9.2	Protection of VDRs	V	N
1.5.9.3	Bridging of functional insulation by a VDR	37 67	N
1.5.9.4	Bridging of basic insulation by a VDR	,45° _O	N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	- 1 P	N

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1.6	Power interface	₩ , ₩ , ₩ , ₩	Р
1.6.1	AC power distribution systems	TN power system for adaptor	Р
1.6.2	Input current	Within limits	Р
1.6.3	Voltage limit of hand-held equipment	Not a hand-held equipment.	N
1.6.4	Neutral conductor	() +,	, M

1.7	Marking and instructions		Р
1.7.1	Power rating	See below	Р
	Rated voltage(s) or voltage range(s) (V):	Input:100-240V a.c ,Output:5.0V d.c	
	Symbol for nature of supply, for d.c. only:	~	
1	Rated frequency or rated frequency range (Hz) .:	50/60Hz	
A Statement	Rated current (mA or A):	Input :0.5A, output: 2.0A	
1.7.1.2	Identification markings		Р
V	Manufacturer's name or trademark or identification mark:	Csec	
	Type/model or type reference:	CS12F050200FGF	
and the second	Symbol for Class II equipment only:		
	Other marking and symbols:	See marking plate.	
1.7.1.3	Use of graphical symbols		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	11, 1 C T	N
1.7.2.4	IT power distribution systems	2 _ O	N
1.7.2.5	Operator access with a tool		N
1.7.2.6	Ozone	45 9	M N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N
1.7.4	Supply voltage adjustment:	Single supply.	N
	Methods and means of adjustment; reference to installation instructions:		N
1.7.5	Power outlets on the equipment:	37 67	N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):	Fusible resister, F1, 3.3ohm 1W	Р
1.7.7	Wiring terminals		N
1.7.7.1	Protective earthing and bonding terminals:		N. A.

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
1.7.7.2	Terminal for a.c. mains supply conductors	*, "#, !"	N		
1.7.7.3	Terminals for d.c. mains supply conductors	10 9	N		
1.7.8	Controls and indicators	_4.5° O	N		
1.7.8.1	Identification, location and marking:	It is obviously unnecessary.	N		
1.7.8.2	Colours		N		
1.7.8.3	Symbols according to IEC 60417	*. 43° C	N		
1.7.8.4	Markings using figures	4. "J" 4" 5" C	N		
1.7.9	Isolation of multiple power sources:	Single power sources.	N		
1.7.10	Thermostats and other regulating devices	No such devices.	N		
1.7.11	Durability	The marking with stands required tests.	Р		
1.7.12	Removable parts	No such parts	N		
1.7.13	Replaceable batteries	No batteries.	N		
8	Language(s)	10,			
1.7.14	Equipment for restricted access locations:	V E	N		

2	PROTECTION FROM HAZARDS	8. Jr. 6. Jr.	Р
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	City V	Р
2.1.1.1	Access to energized parts	Energized parts are not accessible.	Р
	Test by inspection:	Compliance	Р
14.5	Test with test finger(Figure 2A):	Compliance	Р
7	Test with test pin (Figure 2B):	Compliance	Р
	Test with test probe (Figure 2C):	Ø	N
2.1.1.2	Battery compartments	V	N
2.1.1.3	Access to ELV wiring	45.30	N
4	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	(see appended table 2.10.5)	
2.1.1.4	Access to hazardous voltage circuit wiring		N
2.1.1.5	Energy hazards	No energy hazard in operator access area	Р
2.1.1.6	Manual controls	5 J	N
2.1.1.7	Discharge of capacitors in equipment	4.75	N
	Time-constant (s); measured voltage (V):	47	
2.1.1.8	Energy hazards – d.c. mains supply	No d.c. mains supply	N
V	a)Capacitor connected to the d.c. mains supply:		N

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Clause	Requirement – Test	Result – Remark	Verdict
	b)Internal battery connected to the d.c. mains supply		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	<i>y</i>	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):	(see appended table 2.2)	Р
2.2.3	Voltages under fault conditions (V)	(see appended table 2.2)	Р
2.2.4	Connection of SELV circuits to other circuits:	Compliance	Р

2.3	TNV circuits		N
2.3.1	Limits	No TNV circuits.	N
True Control	Type of TNV circuits:	3/ 29/	N
2.3.2	Separation from other circuits and from accessible parts		N
2.3.2.1	General requirements	.O. A.	N
2.3.2.2	Protection by basic insulation		N
2.3.2.3	Protection by earthing		N
2.3.2.4	Protection by other constructions:	.47 47	N
2.3.3	Separation from hazardous voltages	5. 20 V	N
9	Insulation employed:		N
2.3.4	Connection of TNV circuits to other circuits	10.7	N
45.	Insulation employed:	4.50	N
2.3.5	Test for operating voltages generated externally	27 67 LO	N

2.4	Limited current circuits		N
2.4.1	General requirements	V , 197	N
2.4.2	Limit values	*/ */	
Sel Collect	Frequency (Hz):	7.5%	
	Measured current (mA):	47	
	Measured voltage (V):	20	
	Measured capacitance (nF or μF):	9 . ***	

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Clause	Requirement – Test	Result – Remark	Verdict
2.4.3	Connection of limited current circuits to other circuits		N

2.5	Limited power sources		P
	a)Inherently limited output	J V &	N
	b)Impedance limited output		N
A. S. S.	c)Regulating network limited output under normal operating and single fault condition	See appended table 2.5.	Р
1	d)Overcurrent protective device limited output	, 'O, A	N
	Max. output voltage (V), max. output current (A), max. apparent power (VA):	See appended table 2.5.	
	Current rating of overcurrent protective device (A)	45.7	N C
A CHIM	Use of integrated circuit (IC) current limited	D. 28.5	N

2.6	Provisions for earthing and bonding		N
2.6.1	Protective earthing	Class II equipment.	N
2.6.2	Functional earthing	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
	Use of symbol for functional earthing:	45.30	N
2.6.3	Protective earthing and protective bonding conductors	200	N
2.6.3.1	General	.0	N
2.6.3.2	Size of protective earthing conductors		N
4	Rated current (A), cross-sectional area (mm2), AWG	1 to 2 to 1 to 1 to 1 to 1 to 1 to 1 to	N
2.6.3.3	Size of protective bonding conductors	.3° 20' V	N
9	Rated current (A), cross-sectional area (mm2), AWG:		N
2.6.3.4	Resistance of earthing conductors and their terminations, resistance(Ω), voltage drop(V),test current (A), duration(min)		N
2.6.3.5	Colour of insulation:	· 20	N
2.6.4	Terminals	- V ,	N
2.6.4.1	General	V 2	N
2.6.4.2	Protective earthing and bonding terminals	57 57	N
Car	Rated current (A), type and nominal thread diameter (mm)		N
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	CO' V	N

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Clause	Requirement – Test	Result – Remark	Verdict	
2.6.5	Integrity of protective earthing	11,18	N	
2.6.5.1	Interconnection of equipment		N	
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	***	N	
2.6.5.3	Disconnection of protective earth		N	
2.6.5.4	Parts that can be removed by an operator	<u></u>	N	
2.6.5.5	Parts removed during servicing	10 M	N	
2.6.5.6	Corrosion resistance		N	
2.6.5.7	Screws for protective bonding	7,0	N	
2.6.5.8	Reliance on telecommunication network or cable distribution system	* .*	N	

2.7	Overcurrent and earth fault protection in prima	ry circuits	Р
2.7.1	Basic requirements	Protection against overcurrent and short-circuits is provided as an integral part of the equipment. Protection against earth faults is provided as part of the building installation.	Р
	Instructions when protection relies on building installation	A STATE OF THE PARTY OF THE PAR	N
2.7.2	Faults not covered in 5.3.7	Considered	P 🚓
2.7.3	Short-circuit backup protection	The building installation is considered as providing short circuit backup protection.	P
2.7.4	Number and location of protective devices:	Over current protection by fusible resister.	Р
2.7.5	Protection by several devices		N
2.7.6	Warning to service personnel	* ·	N

2.8	Safety interlocks		N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements		N
2.8.3	Inadvertent reactivation	37	N
2.8.4	Fail-safe operation	· 14.5	N
F. Barre	Protection against extreme hazard	A 127 677	N
2.8.5	Moving parts	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
2.8.6	Overriding		N
2.8.7	Switches and relays	(a)	N

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Clause	Requirement – Test	Result – Remark	Verdict		
2.8.7.1	Contact gaps (mm):	\$ 14.3°	N		
2.8.7.2	Overload test		N		
2.8.7.3	Endurance test	_4.8° G	N 🔷		
2.8.7.4	Electric strength test	77	N		
2.8.8	Mechanical actuators	1	// N		

2.9	Electrical insulation	2 4 5 C	Р
2.9.1	Properties of insulating materials		Р
2.9.2	Humidity conditioning	G	Р
	Humidity (%),temperature (°C):	120h, 93%RH, 40.0°C	Р
2.9.3	Grade of insulation	And Sales	Р
2.9.4	Separation from hazardous voltages		Р
Cq.Com	Method(s) used	Method 1 used.	Р

2.10	Clearances, creepage distances and distances	through insulation	Р
2.10.1	General	(A) (A)	Р
	Frequency:	50/60Hz	Р
-	Pollution degrees	Pollution degrees 2	Р
	Reduced values for functional insulation	C. C.	P 🔊
	Intervening unconnected conductive parts		Р
7	Insulation with varying dimensions	* A. J.	Р
46	Special separation requirements	45 J	N
	Insulation in circuits generating starting pulses	11.5° 65' V	N
2.10.2	Determination of working voltage		Р
2.10.3	Clearances		A P
2.10.3.1	General	45 3	Р
2.10.3.2	Mains transient voltages	- 1 1 1 C	Р
Mandage.	a)AC mains supply:	2500V peak	Р
No. of the last of	b)Earthed d.c. mains supplies:	0	♠ N
	c)Unearthed d.c. main supplies:	\$ S	N
*	d)Battery operation:		N
2.10.3.3	Clearances in primary circuits	(See appended table 2.10.3 and 2.10.4)	Р
2.10.3.4	Clearances in secondary circuits	(See appended table 2.10.3 and 2.10.4)	Р
2.10.3.5	Clearances in circuits having starting pulses		N

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Clause	Requirement – Test	Result – Remark	Verdict
2.10.3.6	Transients from a.c. mains supply:	Secondary circuit 1500Vpeak	Р
2.10.3.7	Transients from d.c. mains supply:	15 11	N
2.10.3.8	Transients from telecommunication networks and cable distribution systems:		N
2.10.3.9	Measurement of transient voltage levels	J	N
18.	a)Transients from a mains supply	A	N
11 15 15	For a.c. mains supply	10 M	N
A Company	For d.c. mains supply	77 29/	N
9	b)Transients from		N
2.10.4	Creepage distances		P
2.10.4.1	General	W 1 1 11 11 11 11 11 11 11 11 11 11 11 1	Р
2.10.4.2	Material group and comparative tracking index	N 1177 - 277	Р
	CTI tests	Material group IIIb is assumed to be used	Р
2.10.4.3	Minimum creepage distances	(see appended table 2.10.3 and 2.10.4)	Р
2.10.5	Solid insulation	100	Р
2.10.5.1	General	15.35	Р
2.10.5.2	Distances through insulation	(See appended table 2.10.5)	Р
2.10.5.3	Insulation compound as solid insulation		N 🍇
2.10.5.4	Semiconductor device	3 _令。	N
2.10.5.5	Cemented joints	() () () () () () () () () ()	N
2.10.5.6	Thin sheet material - General	15 To 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Р
2.10.5.7	Separable thin sheet material		Р
	Number or layers(pcs)	3 layers	
2.10.5.8	Non-separable thin sheet material		N
2.10.5.9	Thin sheet material – standard test procedure	45 3	N
44	Electric strength test	- * 2% G	N
2.10.5.10	Thin sheet material – alternative test procedure		Р
N. Harden	Electric strength test	(See appended table 2.10.5)	*
2.10.5.11	Insulation in wound components	\$ A.	Р
2.10.5.12	Wire in wound components	2	Р
ACCEPTANCE OF THE PARTY OF THE	Working voltage	45.35	Р
	a)Basic insulation not under stress	19 LO	N
	b)Basic, supplementary, reinforced insulation:	G V	Р
7	c)Compliance with Annex U:	(See appended table 1.5.1)	Р

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EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
ń	Two wires in contact inside wound component; angle between 45° and 90°:	Tubing used.	Р
2.10.5.13	Wire with solvent-based enamel in wound components		N
0	Electric strength test) V	N
.35.	Rountine test	35.7	N
2.10.5.14	Additional insulation in wound components		N
Mr. Maria	Working voltage	\$ 10 m	N
1	-basic insulation not under stress:	, 'O, A	N
	-Supplementary, reinforced insulation:	-0	N
2.10.6	Construction of printed boards	V at	Р
2.10.6.1	Uncoated printed boards	(See appended table 2.10.3 and 2.10.4)	Р
2.10.6.2	Coated printed boards		N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	O V	N
2.10.6.4	Insulation between conductors on different layers of a printed board	27	N
4	Distance through insulation	.***	N
. 0	Number of insulation layers(pcs):	4.7	N
2.10.7	Component external terminations	.O. A	N A
2.10.8	Tests on coated printed boards and coated components	2 *, '***/	N
2.10.8.1	Sample preparation and preliminary inspection	15 Je 20 C	N
2.10.8.2	Thermal conditioning	4.5° C' V	N
2.10.8.3	Electric strength test	< _ (G)	N
2.10.8.4	Abrasion resistance test	V 10	N
2.10.9	Thermal cycling	48.30	N
2.10.10	Test for Pollution Degree 1 environment and insulating compound	** _***	N
2.10.11	Test for semiconductor devices and cemented joints		N
2.10.12	Enclosed and sealed parts	45.3	N

3	WIRING, CONNECTIONS AND SUPPLY		Р
3.1	General	o 6,30° C	Р
3.1.1	Current rating and overcurrent protection	Adequate cross sectional areas on internal wiring.	Р

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Clause	Requirement – Test	Result – Remark	Verdict		
3.1.2	Protection against mechanical damage	Wire do not touch sharp edges and heat sinks which could damage the insulation and cause hazard	P		
3.1.3	Securing of internal wiring	Internal wiring is reliable secured	P		
3.1.4	Insulation of conductors	Insulation on internal conductors is considered to be of adequate quality and suitable for the application and the working voltage involved.	P		
3.1.5	Beads and ceramic insulators	No such insulators provided.	N		
3.1.6	Screws for electrical contact pressure	1 7 29 S	N		
3.1.7	Insulating materials in electrical connections	7	N		
3.1.8	Self-tapping and spaced thread screws		N		
3.1.9	Termination of conductors	201 4.5	Р		
· Paring	10 N pull test		Р		
3.1.10	Sleeving on wiring	*/ _*// C	N		

3.2	Connection to a mains supply		Р
3.2.1	Means of connection	46.3	Р
3.2.1.1	Connection to an a.c. mains supply	Integrated plug	Р
3.2.1.2	Connection to a d.c. mains supply	4,50	N
3.2.2	Multiple supply connections		N
3.2.3	Permanently connected equipment		N
	Number of conductors, diameter (mm) of cable and conduits:	1437	
3.2.4	Appliance inlets	, 45 / May 1	N
3.2.5	Power supply cords	, , O V	N
3.2.5.1	AC power supply cords		N
	Type	V 27	
4	Rated current (A), cross-sectional area (mm²), AWG:	÷ 3,300 63	
3.2.5.2	DC power supply cords	y 0 20	N
3.2.6	Cord anchorages and strain relief	O V	N
	Mass of equipment (kg), pull (N)	V 40	
- A	Longitudinal displacement (mm)		
3.2.7	Protection against mechanical damage	4.5° O'	N
3.2.8	Cord guards	437 LO	N
_(0	D (mm); test mass (g)	O'V	
1	Radius of curvature of cord (mm):		

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		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
3.2.9	Supply wiring space		N

3.3	Wiring terminals for connection of external cond	luctors	G V	N
3.3.1	Wiring terminals			N
3.3.2	Connection of non-detachable power supply cords	_	**	N
3.3.3	Screw terminals	A STATE OF THE STA		N
3.3.4	Conductor sizes to be connected	N. Salar	A 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4	N
)	Rated current (A), cord/cable type, cross-sectional area (mm²)	_(0		
3.3.5	Wiring terminal sizes	V		N
A STATE OF THE PARTY OF THE PAR	Rated current (A), type and nominal thread diameter (mm):			
3.3.6	Wiring terminals design			N
3.3.7	Grouping of wiring terminals	. 6	4	N
3.3.8	Stranded wire	7.7	4	N

3.4	Disconnection from the mains supply		Р
3.4.1	General requirement	Integrated plug	Р
3.4.2	Disconnect devices		Р
3.4.3	Permanently connected equipment	(5)	N
3.4.4	Parts which remain energized	V .* 4.7	Р
3.4.5	Switches in flexible cords	45 July 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
3.4.6	Single-phase equipment and d.c. equipment		Р
3.4.7	Three-phase equipment	7	N
3.4.8	Switches as disconnect devices	No such devices	N
3.4.9	Plugs as disconnect devices	45.34	N
3.4.10	Interconnected equipment	- 2/3/2 67	N
3.4.11	Multiple power sources	4 3 C	N

3.5	Interconnection of equipment	\$ S	Р
3.5.1	General requirements	24,5	Р
3.5.2	Types of interconnection circuits	SELV circuit only.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV circuits.	N
3.5.4	Data ports for additional equipment		N

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EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
4	PHYSICAL REQUIREMENTS	A A A A A A A A A A A A A A A A A A A	Р	
4.1	Stability	Direct plug-in equipment	N	
7	Angle of 10°	243,00	N	
	Test: force (N):		N	

4.2	Mechanical strength	* 43° C	P
4.2.1	General	See below	Р
	Rack-mounted equipment.		N
4.2.2	Steady force test, 10 N	No energy or other hazards.	Р
4.2.3	Steady force test, 30 N		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	b 43° 20°	Ν
	Fall test	10,	N
V	Swing test	V W	N
4.2.6	Drop test; height(m)	Direct plug-in equipment (1m)	Р
4.2.7	Stress relief test	79.1°C, 7 hours, no hazard	Р
4.2.8	Cathode ray tubes	No cathode ray tube.	N
- (0	Picture tube separately certified:	4,7	N
4.2.9	High pressure lamps	No high pressure lamp	N
4.2.10	Wall or ceiling mounted equipment; force (N):	Direct plug-in equipment	N

4.3	Design and construction		Р
4.3.1	Edges and corners	Edges and corners are rounded.	Р
4.3.2	Handles and manual controls; force (N):		N
4.3.3	Adjustable controls	W # 7	Ň
4.3.4	Securing of parts		Р
4.3.5	Connection of plugs and sockets	97 97 20	Р
4.3.6	Direct plug-in equipment	· 20 3	Р
la.	Torque:	0.05Nm max	P
*	Compliance with the relevant mians plug standard	EN 50075	
4.3.7	Heating elements in earthed equipment	No heating elements.	N
4.3.8	Batteries	No battery	N
_ (-Overcharging of a rechargeable battery	G V	N

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	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
The state of	-Unintentional charging of a non-rechargeable battery		N	
_4,7	-Reverse charging of a rechargeable battery		N	
20	-Excessive discharging rate for any battery	.1/	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	
	Quantity of liquid (I):		N	
	Flash point (°C)		N	
4.3.13	Radiation; type of radiation:	\$ 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	N	
4.3.13.1	General	5° (1) 30 (1)	N	
4.3.13.2	Ionizing radiation	10, 40	N	
	Measured radiation (pA/kg):	O V **		
	Measured high-voltage (kV):	The state of the s		
	Measured focus voltage (kV):	10 M		
4	CRT markings	20		
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	Marine C	N	
*8	Part, property, retention after test, flammability classification:	.50	N	
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	4.7	N	
4.3.13.5	Lasers (including laser diodes) and LEDs	47 27	N	
4.3.13.5.1	Lasers (including laser diodes)	35 G V	N	
	Laser class	° 20	<u>_</u>	
4.3.13.5.2	Light emitting diodes (LEDs)		N	
4.3.13.6	Other types:	45.35	M N	

4.4	Protection against hazardous moving parts		N
4.4.1	General No hazardous moving parts.	No hazardous moving parts.	N
4.4.2	Protection in operator access areas	4.	N
4.4.3	Protection in restricted access locations	.37 637	N
4.4.4	Protection in service access areas	4 4 C	N
4.4.5	Protection against moving fan blades		N
4.4.5.1	General	O'V	N
V	Not considered to cause pain or injury. a):		N

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	EN 60950-1			
Clause	Requirement – Test Result – Remark		Verdict	
	Is considered to cause pain, not injury. b):	11,35	N	
	Considered to cause injury. c):		N	
4.4.5.2	Protection for users	24,8	N	
	Use of symbol or warning	77	N	
4.4.5.3	Protection for service persons	_ %,	N	
~ *	Use of symbol or warning:	A. 157	N	

4.5	Thermal requirements		Р
4.5.1	General		P
4.5.2	Temperature tests	(see appended table 4.5)	A P
*	Normal load condition per Annex L	15.2	46.5 <u>-</u> -
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	(see appended table 4.5)	A P

4.6	Openings in enclosures		N
4.6.1	Top and side openings	No opening	N
	Dimensions (mm)	24,5	
4.6.2	Bottoms of fire enclosures		N
	Construction of the bottom	*	
4.6.3	Doors or covers in fire enclosures	45.75	N
4.6.4	Openings in transportable equipment	45 7 2" F" C	N
4.6.4.1	Constructional design measures	45.5	N
	Dimensions(mm)	/ O	N
4.6.4.2	Evaluation measures for larger openings		N
4.6.4.3	Use of metallized parts	45 37	Maria N
4.6.5	Adhesives for constructional purposes	* 23.8 G	N
14, 25	Conditioning temperature (°C), time (weeks):	7 CT C	

4.7	Resistance to fire	4	Р
4.7.1	Reducing the risk of ignition and spread of flame	Use of materials with the required flammability classes.	Р
Carrie	Method 1, selection and application of components wiring and materials	Method 1 used	Р
	Method 2, application of all of simulated fault condition tests	CO V	N

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Clause	Requirement – Test	Result – Remark	Verdict	
4.7.2	Conditions for a fire enclosure	With having the following parts: - components in primary - components in secondary circuits - insulated wiring the fire enclosure is required.	P	
4.7.2.1	Parts requiring a fire enclosure	The fire enclosure prevent the fire spread	Р	
4.7.2.2	Parts not requiring a fire enclosure	*	N	
4.7.3	Materials		Р	
4.7.3.1	General	PCB rated V-0, fire enclosure used	Р	
4.7.3.2	Materials for fire enclosures	(See appended table 1.5.1)	Р	
4.7.3.3	Materials for components and other parts outside fire enclosures		N	
4.7.3.4	Materials for components and other parts inside fire enclosures	Internal components except small parts are V-2 or better.	Р	
4.7.3.5	Materials for air filter assemblies	No air filter assemblies	N	
4.7.3.6	Materials used in high-voltage components	No high voltage components.	N	

5	ELECTRICAL REQUIREMENTS AND SIMULATE	ED ABNORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current		Р
5.1.1	General		Р
5.1.2	Equipment under test (EUT)	Cir V	P 🚓
5.1.2.1	Single connection to an a.c. mains supply	3 .*.	Р
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	33 C V	N
5.1.3	Test circuit		Р
5.1.4	Application of measuring instrument	W 27	P
5.1.5	Test procedure		P 💮
5.1.6	Test measurements	87 67 20	Р
and the same	Test voltage (V)	264V/60Hz	
100	Measured touch current (mA)	(see appended table 5.1)	
2	Max. allowed touch current (mA):	(see appended table 5.1)	
ATT. ATT.	Measured protective conductor current (mA):	57 57	
Call Call	Max. allowed protective conductor current (mA):	7 To 10	
5.1.7	Equipment with touch current exceeding 3.5 mA:	4/	N
5.1.7.1	General	20 V	N
5.1.7.2	Simultaneous multiple connections to the supply		N

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks	(4.3°) (4.3°)	N		
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system	3. × V	N Stranger		
福	Test voltage (V)	→ **/*	N		
11.	Measured touch current (mA)		N		
1	Max. allowed touch current (mA):	7/	N		
5.1.8.2	Summation of touch currents from telecommunication networks		N		
	a)EUT with earthed telecommunication ports:		N		
The state of the s	b)EUT whose telecommunication ports have no reference to protective earth		N		
5.2	Electric strength		P		
5.2.1	General	(see appended table 5.2)	Р		
5.2.2	Test procedure		Р		
5.3	Abnormal operating and fault conditions	.** .0*	Р		
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P		
5.3.2	Motors	3*.	N		
5.3.3	Transformers	(See appended Annex C)	Р		
5.3.4	Functional insulation:	Functional insulation complied with the requirements c).	Р		
5.3.5	Electromechanical components	No such components	N		
5.3.6	Audio amplifiers in ITE:		N		
5.3.7	Simulation of faults	Result see appended table 5.3.	Р		
5.3.8	Unattended equipment	47	N 4		
5.3.9	Compliance criteria for abnormal operating and fault conditions	See below	Р		
5.3.9.1	During the tests	Neither fire burns the equipment nor	P		

6	CONNECTION TO TELECOMMUNICATION NETWORKS	
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	N
6.1.1	Protection from hazardous voltages	N

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After the tests

5.3.9.2

molten metal.

No hazards



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Clause	Requirement – Test	Result – Remark	Verdict	
6.1.2	Separation of the telecommunication network from	n earth	N	
6.1.2.1	Requirements		N	
	Test voltage (V):	_4,5°		
	Current in the test circuit (mA):			
6.1.2.2	Exclusions:	*	4 N	

6.2	Protection of equipment users from overvoltage	es on telecommunication networks	N
6.2.1	Separation requirements		N
6.2.2	Electric strength test procedure		N
6.2.2.1	Impulse test		N
6.2.2.2	Steady-state test	W. W. M. W. W. W.	N
6.2.2.3	Compliance criteria	N 10 27 27 1	N

6.3	Protection of the telecommunication wiring system from overheating		N
	Max. output current (A):	V 47	
	Current limiting method:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

7	CONNECTION TO CABLE DISTRIBUTION SYST	EMS	N
7.1	Genreal	A.3/2 _O	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		N
7.3	Protection of equipment users from overvoltages on the cable distribution system		N
7.4	Insulation between primary circuits and cable distribution systems		N
7.4.1	General	10 10	N
7.4.2	Voltage surge test		N
7.4.3	Impulse test	a) 4/ 2U	N

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	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		N	
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		N	
A.1.1	Samples	.1/		
9	Wall thickness (mm)	J		
A.1.2	Conditioning of samples; temperature (°C):	A	N	
A.1.3	Mounting of samples	10 10 10 10 10	N	
A.1.4	Test flame (see IEC 60695-11-3)	77 247 39	N	
)	Flame A, B, C or D	70		
A.1.5	Test procedure		N	
A.1.6	Compliance criteria	21	N	
15 miles	Sample 1 burning time (s)	. 477 -77		
St. Park	Sample 2 burning time (s):	7 -4/		
	Sample 3 burning time (s):	,0 %		
A.2	Flammability test for fire enclosures of movable eq exceeding 18 kg, and for material and components 4.7.3.2 and 4.7.3.4)		N	
A.2.1	Samples, material:	45.35		
	Wall thickness (mm)	21 Mark - C		
A.2.2	Conditioning of samples	Cia S	N 👍	
A.2.3	Mounting of samples	3	N	
A.2.4	Test flame (see IEC 60695-11-4)	1	N	
14.	Flame A, B or C	the first the second of the se		
A.2.5	Test procedure	3.5° 6.7° V	N	
A.2.6	Compliance criteria	× 20	N	
	Sample 1 burning time (s)			
4	Sample 2 burning time (s)	45.30		
44	Sample 3 burning time (s)	- 3 2 2 C		
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8	× 6× 20	N	
N. Salar	Sample 1 burning time (s):			
	Sample 2 burning time (s)	₩ (A)		
*	Sample 3 burning time (s)			
A.3	Hot flaming oil test (see 4.6.2)	4. 100	N	
A.3.1	Mounting of samples	4% - O	N	
A.3.2	Test procedure	G V	N	
A.3.3	Compliance criterion	(C) (2)	N	

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Clause	Requirement – Test	Result – Remark	Verdict
В	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	CONDITIONS (see 4.7.2.2 and	N
B.1	General requirements	No motor	N
9	Position)	
49	Manufacturer		
The state of the s	Type:		
1	Rated values		
B.2	Test conditions		N
B.3	Maximum temperatures		N
B.4	Running overload test		N
B.5	Locked-rotor overload test	S 477 -277	N
N. Park	Test duration (days):	7 _%/	
	Electric strength test: test voltage (V):		
B.6	Running overload test for d.c. motors in secondary circuits		N
B.6.1	General	B. Tr.	N
B.6.2	Test procedure	.*** 10	N
B.6.3	Alternative test procedure	437	N
B.6.4	Electric strength test; test voltage (V)	.0.	N
B.7	Locked-rotor overload test for d.c. motors in secon	dary circuits	N
B.7.1	Test procedure	3.7	N
B.7.2	Alternative test procedure; test time (h)	18 pm	N
B.7.3	Electric strength test	57 20 V	N
B.8	Test for motors with capacitors		N
B.9	Test for three-phase motors	10.77	N
B.10	Test for series motors	4	N a
4 Salas	Operating voltage (V)	a 7 a 7 LO	
a sellon di se	O V 18 19	· · · · · · · · · · · · · · · · · · ·	
С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.	3)	Р

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		Р
	Position	Soldered on PCB (T1)	<i>-</i> -
A.P.	Manufacturer	See components list.	
rad Collect	Type:	Ditto	
	Rated values	47	
	Method of protection:	Protective circuit	

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N

Ν

C.1 Overload test Transformers for switch mode power supply units are tested in the complete equipment. test load are applied to the output of the power supply unit		EN 60950-1		
power supply units are tested in the complete power unit or in the power upply unit unit or in the power unit or in the complete power unit or in the power upply unit unit or in the power upply unit unit or in the power upply unit unit or in the complete power unit or in the complete power upply unit unit unit or in the complete power upply unit unit unit or in the complete power unit unit or in the complete power unit unit unit or in the complete power unit unit unit unit unit or	Clause	Requirement – Test	Result – Remark	Verdict
Protection from displacement of windings: ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4) Alternative measuring instrument ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13) ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES Clearances ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES Clearances ANDEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES AND CLEARANCES ANDEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES AN	C.1	Overload test	power supply units are tested in the complete power unit or in the complete equipment .test load are applied to the output of the power	P
ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4) D.1 Measuring instrument D.2 Alternative measuring instrument N ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13) N ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N Clearances N Clearances N S.1.1 General N S.1.2 Summary of the procedure for determining minimum clearances Clearances Determination of mains transient voltage (V): N S.2.1 AC mains supply N S.2.2 DC mains supply N S.2.3 Unearthed DC mains supply N S.2.4 Battery operation	C.2	Insulation	(see appended table 5.2)	P
ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N G.1.1 Clearances N G.1.1 General N G.1.2 Summary of the procedure for determining minimum clearances N G.2.1 Determination of mains transient voltage (V): N G.2.1 AC mains supply N G.2.2 DC mains supply N G.2.3 Unearthed DC mains supply N G.2.3 Unearthed DC mains supply N G.3.4 Battery operation	100	Protection from displacement of windings:	*. 45°	Р
ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N G.1.1 Clearances N G.1.1 General N G.1.2 Summary of the procedure for determining minimum clearances N G.2.1 Determination of mains transient voltage (V): N G.2.1 AC mains supply N G.2.2 DC mains supply N G.2.3 Unearthed DC mains supply N G.2.3 Unearthed DC mains supply N G.3.4 Battery operation	4. 18		45 2 45 C	
ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13) ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N G.1.1 Clearances N G.1.1 General N G.1.2 Summary of the procedure for determining minimum clearances N G.2.1 Determination of mains transient voltage (V): N G.2.2 DC mains supply N G.2.3 Unearthed DC mains supply	D	ANNEX D, MEASURING INSTRUMENTS FOR TO	DUCH-CURRENT TESTS (see 5.1.4)	Р
ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N N Clearances N N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N N Clearances N N Clearances N N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N N Clearances N N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N N Clearances N N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N Annex G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N Annex G, ALTERNATIVE METHOD FOR DETER	D.1	Measuring instrument	_0	Р
ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N N An Clearances N N Clearances N N An Clearances N N Clearances N N Clearances N N An Clearances N N Clearances N N An An Clearances N N Clearances N N An Clearances N An Clearances N N Clearances N An An Clearances N An Clearances Clearances N An Clearances Clearances Clearances N An Clearances Clea	D.2	Alternative measuring instrument		N
ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10) ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N N An Clearances N N Clearances N N An Clearances N N Clearances N N Clearances N N An Clearances N N Clearances N N An An Clearances N N Clearances N N An Clearances N An Clearances N N Clearances N An An Clearances N An Clearances Clearances N An Clearances Clearances Clearances N An Clearances Clea	*	*** 67 V	155 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
(see 2.10) ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N G.1 Clearances N G.1.1 General N G.1.2 Summary of the procedure for determining minimum clearances N G.2 Determination of mains transient voltage (V): N G.2.1 AC mains supply N G.2.2 DC mains supply N G.2.3 Unearthed DC mains supply	E North	ANNEX E, TEMPERATURE RISE OF A WINDING	6 (see 1.4.13)	N
(see 2.10) ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES N G.1 Clearances N G.1.1 General N G.1.2 Summary of the procedure for determining minimum clearances N G.2 Determination of mains transient voltage (V): N G.2.1 AC mains supply N G.2.2 DC mains supply N G.2.3 Unearthed DC mains supply	1.00°		6.79	
Clearances S.1.1 General S.1.2 Summary of the procedure for determining minimum clearances S.2 Determination of mains transient voltage (V): S.2.1 AC mains supply S.2.2 DC mains supply S.2.3 Unearthed DC mains supply	F		AND CREEPAGE DISTANCES	Р
Clearances S.1.1 General S.1.2 Summary of the procedure for determining minimum clearances S.2 Determination of mains transient voltage (V): S.2.1 AC mains supply S.2.2 DC mains supply S.2.3 Unearthed DC mains supply		ANNEY O ALTERNATIVE METURE FOR DETER		6
G.1.1 General Summary of the procedure for determining minimum clearances G.2 Determination of mains transient voltage (V): N G.2.1 AC mains supply DC mains supply S.2.2 Determination of mains transient voltage (V): N G.2.3 Unearthed DC mains supply			RMINING MINIMUM CLEARANCES	
Summary of the procedure for determining minimum clearances 3.2 Determination of mains transient voltage (V): 3.2.1 AC mains supply N 3.2.2 DC mains supply N 3.2.3 Unearthed DC mains supply				
minimum clearances G.2 Determination of mains transient voltage (V): N G.2.1 AC mains supply G.2.2 DC mains supply N G.2.3 Unearthed DC mains supply: N G.2.4 Battery operation: G.3 Determination of telecommunication network transient voltage (V): G.4 Determination of required withstand voltage (V):: N Mains transients and internal repetitive peaks: N G.4.2 Transients from telecommunication networks: N N G.4.3 Combination of transients	4.99			
G.2.1 AC mains supply G.2.2 DC mains supply N G.2.3 Unearthed DC mains supply	G. 1.2	minimum clearances	3	IN.
G.2.2 DC mains supply G.2.3 Unearthed DC mains supply	G.2	Determination of mains transient voltage (V):	37 27	N
G.2.3 Unearthed DC mains supply	G.2.1	AC mains supply	, ***	N
G.2.4 Battery operation: G.3 Determination of telecommunication network transient voltage (V): G.4 Determination of required withstand voltage (V).: G.4.1 Mains transients and internal repetitive peaks: G.4.2 Transients from telecommunication networks: N G.4.3 Combination of transients	G.2.2	DC mains supply	.) 20 V	N
Determination of telecommunication network transient voltage (V)	G.2.3	Unearthed DC mains supply		N
transient voltage (V): G.4 Determination of required withstand voltage (V) .: N G.4.1 Mains transients and internal repetitive peaks: N G.4.2 Transients from telecommunication networks: N G.4.3 Combination of transients N	G.2.4	Battery operation	10 10	N
G.4.1 Mains transients and internal repetitive peaks: N G.4.2 Transients from telecommunication networks: N Combination of transients	G.3		÷ 25° 6	N
G.4.2 Transients from telecommunication networks: N G.4.3 Combination of transients N	G.4	Determination of required withstand voltage (V) . :		N
G.4.3 Combination of transients N	G.4.1	Mains transients and internal repetitive peaks:		♠ N
	G.4.2	Transients from telecommunication networks:	▽	N
G.4.4 Transients from cable distribution systems N	G.4.3	Combination of transients		N
	G.4.4	Transients from cable distribution systems	47 67	N

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Measurement of transient levels (V)....:

a) Transients from a mains supply

For an a.c. mains supply

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G.5



	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	For a d.c. mains supply	\$ 1.00 m	N
2	b) Transients from a telecommunication network	12.00	N
G.6	Determination of minimum clearances:	243° C	N
	* 14. pt		41: 3
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)		N
			4
J the second	ANNEX J, TABLE OF ELECTROCHEMICAL POT	ENTIALS (see 2.6.5.6)	N
State of the last	Metal used:		
		.0	_ 4
<	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	1 5.3.7)	N
<.1 🦣	Making and breaking capacity		Z
<.2	Thermostat reliability; operating voltage (V):		N
< .3	Thermostat endurance test; operating voltage (V)		N
<.4	Temperature limiter endurance; operating voltage (V)		N
< .5	Thermal cut-out reliability	St. Tree	N
K.6	Stability of operation	.*** 10	N
C	1	437	1
10	ANNEX L, NORMAL LOAD CONDITIONS FOR S BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.1)	OME TYPES OF ELECTRICAL	P
L.1	Typewriters	* _ *,	N
2	Adding machines and cash registers	45 7 C	N
3	Erasers		Ν
4	Pencil sharpeners		N
5	Duplicators and copy machines		N
L.6	Motor-operated files	45.5	N
L.7	Other business equipment	_%% G	Р
A de la companya del companya de la companya del companya de la co			
И	ANNEX M, CRITERIA FOR TELEPHONE RINGIN	G SIGNALS (see 2.3.1)	, N
M.1	Introduction	45	N
VI.2	Method A	The state of the s	N
M.3	Method B	45 65	N
M.3.1	Ringing signal	1 3 de 1 de 1	N
M.3.1.1	Frequency (Hz):		

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Voltage (V):

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M.3.1.2



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M.3.1.3	Cadence; time (s), voltage (V):	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
M.3.1.4	Single fault current (mA):				
M.3.2	Tripping device and monitoring voltage:	4, 3	N		
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	5" >	N		
M.3.2.2	Tripping device	₩ ,₩	N		
M.3.2.3	Monitoring voltage (V):	Will a state of	N		

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

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

Q	ANNEX Q, Voltage dependent resisters (VDRS) (see 1.5.9.1)		N 🧑
The state of the s	-Preferred climatic categories:	No VDR used	N
	-Maximum continuous voltage:	.***	N
	-Combination pulse current	46.30	N
*C	Body of the VDR Test according to IEC 60695-11-5	.0	N
	Body of the VDR. Flammability class of material (min V-1):		N

R	ANNEX R, EXAMPLES OF REQUIREMENTS FO PROGRAMMES	R QUALITY CONTROL	N
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)	45. 30.	N
R.2	Reduced clearances (see 2.10.3)	. 3/	N

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING	(see 6.2.2.3)	♠ N
S.1	Test equipment	*	N
S.2	Test procedure	- * J	N
S.3	Examples of waveforms during impulse testing	4.75	N

T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER	N 4
	(see 1.1.2)	

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Clause	Requirement – Test	Result – Remark	Verdict
	47/ 67/ 6		
U	ANNEX U, INSULATED WINDING WIRES FOR UNSULATION (see 2.10.5.4)	JSE WITHOUT INTERLEAVED	Р
20		24/	杨
V	ANNEX V, AC POWER DISTRIBUTION SYSTEM	IS (see 1.6.1)	P
V.1	Introduction	A 29/	Р
V.2	TN power distribution systems	. # / 4 P	Р
The same of			
W	ANNEX W, SUMMATION OF TOUCH CURRENT	S	N
W.1	Touch current from electronic circuits		N
W.1.2	Earthed circuits	100	N
W.2	Interconnection of several equipments		N
W.2.1	Isolation		N
W.2.2	Common return, isolated from earth		N
W.2.3	Common return, connected to protective earth	**	N
	. * // _ *//	14 Sept.	
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRA	ANSFORMER TESTS (see clause	N
X.1	Determination of maximum input current	43° - C	N
X.2	Overload test procedure	.O. A	N
1	3 · · · · · · · · · · · · · · · · · · ·		Mary Mary
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN	G TEST (see 4.3.13.3)	N
Y.1	Test apparatus	1 th	N
Y.2	Mounting of test samples	10 V	N
Y.3	Carbon-arc light-exposure apparatus:		N
		W 77	IN
Y.4	Xenon-arc light exposure apparatus:	The second secon	N
Y.4	Xenon-arc light exposure apparatus:		
45.0	ANNEX Z, OVERVOLTAGE CATEGORIES(see2		
Y.4 Z	2 13° 10° V		N
Z	2 13° 10° V		N
45.0	ANNEX Z, OVERVOLTAGE CATEGORIES(see2		N N
Z	ANNEX Z, OVERVOLTAGE CATEGORIES(see2	.10.3.2 and Clause G.2)	N N
Z	ANNEX Z, OVERVOLTAGE CATEGORIES(see2 ANNEX AA, MANDREL TEST (see 2.10.5.8)	.10.3.2 and Clause G.2)	N N
Z	ANNEX Z, OVERVOLTAGE CATEGORIES(see2 ANNEX AA, MANDREL TEST (see 2.10.5.8)	.10.3.2 and Clause G.2)	N N
Z AA BB	ANNEX Z, OVERVOLTAGE CATEGORIES(see2 ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION	.10.3.2 and Clause G.2)	N N N

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Clause	Requirement – Test	Result – Remark	Verdict	
CC.3	Test program 2	* 15 July 18 J	N	
CC.4	Test program 3		N	
CC.5	Compliance:	4.8	N	

DD	ANNEX DD, requirements for the mounting means of rack-mounted equipment		N
DD.1	General	*. 43° C	N
DD.2	Mechanical strength test, variable N		N
DD.3	Mechanical strength test, 250N, including end stops	, C V	N
DD.4	Compliance		N

EE .	ANNEX EE, Household and home/office document/media shredders		N
EE.1	General		N
EE.2	Marking and instructions		N
	Use of markings or symbols:	**/	N
	Information of user instructions, maintenance and/or servicing instructions:		N
EE.3	Compliance	,	N
EE.4	Disconnection of power to hazardous moving parts:		N
1	Use of markings or symbols:	3 .*,	N
EE.5	Protection against hazardous moving parts		N
44	Test with test finger (figure 2A)	45 Jen 20	N
P. W.	Test with wedge probe (figure EE1 and EE2):		N

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				EN 60950-1			
Clause	Requirem	ent – Test			Result – Re	mark	Verdict
	EN 60950-	-1:2006/A11:2	009/A1:2010/	A12:2011 – CEN	NELEC COMM	ON MODIFICATIONS	3
Contents (A2:2013)	Annex ZA Annex ZB	ollowing annex (normative) (normative) (informative)	Normative ref publications v publications Special nation	ferences to intervith their corresponding	oonding Europe		P
General		the —country to the following		eference docur	nent (IEC 6095	0-1:2005)	Р
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	The second
	2.2.3	Note	2.2.4	Note	2.3.2	Note	Strate Courts
	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	a C
	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	
	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	
	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	A
	G.2.1	Note 2	Annex H	Note 2			4
General (A1:2010)		the "country" i		ference docume	ent (IEC 60950	-1:2005/A1:2010)	Р
	1.5.7.1	Note		6.1.2.1	Note 2		
	6.2.2.1	Note 2		EE.3	Note		
General (A2:2013)	according 2.7.1 6.2.2.	to the following Note *	ng list:	ference docume 2.10.3.1 Modification ren	Note 2	-1:2005/A2:2013)	A State of the sta
1.1.1 (A1:2010)	Replace to NOTE 3 The multimedia	he text of NOT ne requirements	E 3 by the foll of EN 60065 me IEC Guide 112	owing. ay also be used t	o meet safety re	Je. 10	\

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	EN 60950-1:2006/A11:2009/A1:2010/A12:2011 - CENELEC COMMON MODIFICATIONS	3
1.3.Z1	Add the following subclause: 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. 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	
A12:2011)	manufacturers. In EN 60950-1:2006/A12:2011 Delete the addition of 1.3.Z1 / EN 60950-1:2006	Р
	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	p
1.5.1	Add the following NOTE: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC	Р
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.	N
.7.2.1	In EN 60950-1:2006/A12:2011	N
A12.2011)	Delete NOTE Z1 and the addition for Portable Sound System. Add the following clause and annex to the existing standard and amendments.	4
	Zx Protection against excessive sound pressure from personal music players	N

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		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
	EN 60950-1:2006/A11:2009/A1:2010/	A12:2011 – CENELEC COMMON MODIFICATION	ONS
CC [®]	from personal music players that are	ts for protection against excessive sound pressu closely coupled to the ear. It also specifies dphones intended for use with personal music	n N
	 primarily uses headphones or earplears; allows the user to walk around while NOTE 1 Examples are hand-held or be players, mobile phones with MP3 type 	en to recorded or broadcast sound or video; and nones that can be worn in or on or around the	
	personal music players shall comply	with the requirements of this sub-clause. are valid for music or video mode only.	
	player or the listening device, but whi music player.	nes are not used. Implifier which is not part of the personal music ch is intended to play the music as a standalone	NO.
	products sold through normal electron equipment analogue personal music players (processing of the sound signal) the 2015. NOTE 4 This exemption has been allowed and it is expected that within a few years.	ssional equipment; quipment sold through special sales channels. Al nics stores are considered not to be professional personal music players without any kind of digital nat are brought to the market before the end of cowed because this technology is falling out of users it will no longer exist. This exemption will not	e
The state of the s	For equipment which is clearly design of EN 71-1 apply.	ned or intended for use by young children, the lim	nits

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EN 60950-1					
Clause	Requirement – Test		Result – Rem	ark	Verdict
	EN 60950-1:2006/A11:2009/A1:2010	/A12:2011 – CE	NELEC COMMO	N MODIFICATIONS	
. 3	Zx.2 Equipment requirements		manufica suith the a fa		N
	No safety provision is required for eq equipment provided as a packag where the acoustic output LAeq, "programme simulation noise" as a personal music player provided w listening device, where the electr EN 50332-2, while playing the fix EN 50332-1. NOTE 1 Wherever the term acoustic equivalent sound pressure level LAed	e (personal mu T is ≤ 85 dBA n described in E vith an analogue ical output is ≤ ted "programme output is used	sic player with its leasured while pla N 50332-1; and e electrical output 27 mV measured e simulation noise" in this clause, the	socket for a as described in 30 s A-weighted	
	All other equipment shall:			4	
	a) protect the user from unintentional above; and	acoustic outpu	ts exceeding those	e mentioned	
	b) have a standard acoustic output le automatically return to an output le power is switched off; and				
	c) provide a means to actively inform the equipment is operated with an a Any means used shall be acknowled operation which allows for an acoustic	acoustic output edged by the us	exceeding those representation	mentioned above. g a mode of	
	acknowledgement does not need to cumulative listening time; and NOTE 2 Examples of means include always required.	be repeated r	nore than once eve	ery 20 h of	
	NOTE 3 The 20 h listening time is the often and how long the personal must d) have a warning as specified in Zx e) not exceed the following:	sic player has b		ependent how	
	1) equipment provided as a packa output shall be ≤ 100 dBA measure noise" described in EN 50332-1; and	d while playing	the fixed "program	nme simulation	
	2) a personal music player provide listening device, the electrical output 50332-2, while playing the fixed "prog	shall be ≤ 150	mV measured as	described in EN	
	For music where the average sound duration of the song is lower than the noise, the warning does not need to the song is below the basic limit of 85 song	e average prod be given as lon	uced by the progra g as the average s	amme simulation sound pressure of	
	song. NOTE 4 Classical music typically has 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 85.	e programme s g and compare be given as lon 5 dBA.	imulation noise. To it with the program g as the average s	herefore, if the nme simulation sound pressure of	
	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.	nly 65 dBA, thei	e is no need to give	ve a warning or	

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		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
	EN 60950-1:2006/A11:2009/A1:2010/	A12:2011 – CENELEC COMMON MODIFICATIONS	
ر د	Zx.3 Warning The warning shall be placed on the edmanual and shall consist of the follow the symbol of Figure 1 with a number the following wording, or similar	ninimum height of 5 mm; and	N
	periods." Figure 1 – War	ning label (IEC 60417-6044) be given through the equipment display during wledge activation of the higher level.	
K. alcolin		vices (headphones and earphones)	N
	simulation noise" described in EN 503 This requirement is applicable in any or passive), including any available setti	Aeq,T, the input voltage of the fixed "programme	N
C To the second	Zx.4.2 Wired listening devices with With any playing device playing the fit 50332-1 (and respecting the digital in standard exists that specifies the equ of the listening device shall be ≤ 100 department is applicable in any	xed "programme simulation noise" described in EN terface standards, where a digital interface ivalent acoustic level), the acoustic output LAeq,T	N S
45.	NOTE An example of a wired listening	g device with digital input is a USB headphone.	*
	described in EN 50332-1; and - respecting the wireless transmissio that specifies the equivalent acou - with volume and sound settings in the level control, additional sound featof positions that maximize the me	evice playing the fixed programme simulation noise in standards, where an air interface standard exists stic level; and he listening device (for example built-in volume sture like equalization, etc.) set to the combination easured acoustic output for the abovementioned acoustic output LAeq,T of the listening device shall	N N
		2. 40	

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	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	EN 60950-1:2006/A11:2009/A1:2010/A12:2011 - CEN	NELEC COMMON MODIFICATIONS	77.88
, C	Zx.5 Measurement methods Measurements shall be made in accordance with EN applicable. Unless stated otherwise, the time interval		N
	NOTE Test method for wireless equipment provided udefined.	without listening device should be	My decoral
2.7.1	Replace the subclause as follows: Basic requirements To protect against excessive current, short-circuits ar CIRCUITS, protective devices shall be included eithe or as parts of the building installation, subject to the form a) except as detailed in b) and c), protective devices in a subject to the form.	r as integral parts of the equipment bllowing, a), b) and c): necessary to comply with the	N
	requirements of 5.3 shall be included as parts of the 6 b) for components in series with the mains input to the cord, appliance coupler, r.f.i. filter and switch, short-cibe provided by protective devices in the building install.	e equipment such as the supply rcuit and earth fault protection may	
	c) it is permitted for PLUGGABLE EQUIPMENT TYPI CONNECTED EQUIPMENT, to rely on dedicated over protection in the building installation, provided that the circuit breakers, is fully specified in the installation installation in the protection in the building installation shall so state, except that for PLUGGABLE EQUIPMI installation shall be regarded as providing protection is wall socket outlet.	E B or PERMANENTLY ercurrent and short-circuit e means of protection, e.g. fuses or tructions. Illation, the installation instructions ENT TYPE A the building	N
2.7.2	This subclause has been declared 'void'.		N
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	4. 4.97	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 In Table 3B, replace the first four lines by the following	H03 VVH2-F"; H05 VVH2-F2".	N
	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	ords "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

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	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
	EN 60950-1:2006/A11:2009/A1:2010/A12:2011 -	CENELEC COMMON MODIFICATIONS	7 198		
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to:		N		
	1999/519/EC: Council Recommendation on the li public to electromagnetic fields 0 Hz to 300 GHz,				
	2006/25/EC: Directive on the minimum health and exposure of workers to risks arising from physica		Market Service		
The standard of the standard o	Standards taking into account mentioned Recommendation demonstrate compliance with the applicable EU [N		
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPER shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). level.		N M		
Transfer Williams	Replace the notes as follows: NOTE These values appear in Directive 96/29/Eu Delete NOTE 2.	ıratom.			
Bibliograph y	Additional EN standards.		_		

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

		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
V	ZB ANNEX (normative) SI	PECIAL NATIONAL CONDITIONS (EN)	
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.		
1.2.13.14	1.2.13.14 In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.		N
1.5.7.1	In Finland, Norway and Sweden , resisters bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resister is used, the resister must withstand the resister test in 1.5.7.2.		N
1.5.8	In Norway , due to the IT power syste required to be rated for the applicable	m used (see annex V, Figure V.7), capacitors are eline-to-line voltage (230 V).	N
1.5.9.4	In Finland , Norway and Sweden , the equipment as defined in 6.1.2.2 of this	e third dashed sentence is applicable only to s annex.	N N

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		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
	ZB ANNEX (normativ	e) SPECIAL NATIONAL CONDITIONS (EN)	C 1888
1.7.2.1	intended for connection to other connection to protective earth or	n, CLASS I PLUGGABLE EQUIPMENT TYPE A equipment or a network shall, if safety relies on if surge suppressors are connected between the parts, have a marking stating that the equipment I mains socket-outlet.	N
	The marking text in the applicabl	e countries shall be as follows:	
	In Finland: "Laite on liitettävä suo	ojakoskettimilla varustettuun pistorasiaan"	
	In Norway: "Apparatet må tilkople	es jordet stikkontakt"	
	In Sweden: "Apparaten skall ans	lutas till jordat uttag"	
	earthed at the entrance of the busystem within the building. There need to be isolated from the screet is however accepted to provide	een of the cable distribution system is normally not illding and there is normally no equipotential bonding fore the protective earthing of the building installation een of a cable distribution system.	
	e.g. a retailer.	ble with galvanic isolator, which may be provided by	
	The user manual shall then have	the following or similar information in Norwegian and depending on in what country the equipment is	
	mains connection or through other and to a cable distribution system create a fire hazard. Connection	tective earthing of the building installation through the er equipment with a connection to protective earthing em using coaxial cable, may in some circumstances to a cable distribution system has therefore to be ling electrical isolation below a certain frequency 60728-11)."	
43	in Sweden, a galvanic isolator sh	ion for installations of cable distribution systems, and hall provide electrical insulation below 5 MHz. The ctric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1	N
	Translation to Norwegian (the Sv	vedish text will also be accepted in Norway):	
	utstyr – og er tilkoplet et kabel-Tv skal det ved tilkopling av utstyret mellom utstyret og kabel- TV net	sesjord via nettplugg og/eller via annet jordtilkoplet V nett, kan forårsake brannfare. For å unngå dette til kabel-TV nettet installeres en galvanisk isolator tet."	
	Translation to Swedish:		
	utrustning och samtidigt är koppl brand. Főr att undvika detta skall	syddsjord via jordat vägguttag och/eller via annan ad till kabel-TV nät kan i vissa fall medfőra risk főr I vid anslutning av utrustningen till kabel-TV nät utrustningen och kabel-TV nätet."	
1.7.2.1 (A2:2013)	In Denmark , CLASS I PLUGGAI other equipment or a network shif surge suppressors are connect parts, have a marking stating that	BLE EQUIPMENT TYPE A intended for connection to all, if safety relies on connection to protective earth or sed between the network terminals and accessible at the equipment must be connected to an earthed	N
		all be as follows: In Denmark : "Apparatets stikprop jord, som giver forbindelse til stikproppens jord."	

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	EN 60950-1					
Clause	Requirement – Test Resul	t – Remark	Verdict			
	ZB ANNEX (normative) SPECIAL NATION	IAL CONDITIONS (EN)	C 4400			
1.7.5	In Denmark , socket-outlets for providing power to oth accordance with the Heavy Current Regulations, Sect DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I e EQUIPMENT the socket-outlet shall be in accordance DK 1-5a. For CLASS II EQUIPMENT the socket outlet shall be Sheet DKA 1-4a.	ion 107-2-D1, Standard Sheet equipment. For STATIONARY with Standard Sheet DK 1-1b or	N			
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.					
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 circu A.	it shall be taken as 13 A, not 16	Р			
2.7.1	In the United Kingdom , to protect against excessive PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMEN conducted, using an external protective device rated 3 suitable protective devices shall be included as integrated EQUIPMENT, so that the requirements of 5.3 are met	IT, tests according to 5.3 shall be 80 A or 32 A. If these tests fail, al parts of the DIRECT PLUG-IN	P			
2.10.5.13	In Finland , Norway and Sweden , there are additiona see 6.1.2.1 and 6.1.2.2 of this annex.		N			
3.2.1.1	In Switzerland , supply cords of equipment having a R 10 A shall be provided with a plug complying with SEV of the following dimension sheets: SEV 6532-2.1991 Plug Type 15 3P+N+PE SEV 6533-2.1991 Plug Type 11 L+N SEV 6534-2.1991 Plug Type 12 L+N+PE		N			
	In general, EN 60309 applies for plugs for currents explug and socket-outlet system is being introduced in Sare according to the following dimension sheets, public SEV 5932-2.1998: Plug Type 25, 3L+N+PE 230/400	ceeding 10 A. However, a 16 A Switzerland, the plugs of which shed in February 1998:				
	SEV 5933-2.1998:Plug Type 21, L+N, 250 V, 16A	, 47 LO				
	SEV 5934-2.1998: Plug Type 23, L+N+PE 250 \	V, 16 A				

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	EN 60	950-1				
Clause	Requirement – Test	Result – Remark	Verdict			
	ZB ANNEX (normative) SPECIAL	NATIONAL CONDITIONS (EN)	488			
3.2.1.1	In Denmark , supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a. If poly-phase equipment and single-phase equipment having a RATED CURRENT					
3.2.1.1	exceeding 13 A is provided with a supply colacordance with the Heavy Current Regulation.	ons, Section 107-2-D1 or EN 60309-2.	N			
	In Spain , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994. Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993. 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.					
0011	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.					
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					
3.2.1.1	plug conforming to BS 1363 or 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.					
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 corfor equipment with a rated current over 10 A		N			
3.3.4	In the United Kingdom , the range of conductory terminals for equipment with a RATED CU 13 A is:	URRENT of over 10 A up to and including	N			
4.3.6	• 1,25 mm² to 1,5 mm² nominal cross-section. In the United Kingdom , the torque test is possible with BS 1363 part 1:1995, including Amendrate the plug part of DIRECT PLUG-IN EQUIPME 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 13.17 is performed at not less than 125 °C. Van Insulated Shutter Opening Device (ISOD) also apply.	erformed using a socket outlet complying ment 1:1997 and Amendment 2:2003 and ENT shall be assessed to BS 1363: Part 1, 12.16 and 12.17, except that the test of Where the metal earth pin is replaced by	P			

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EN 60950-1						
Clause	Requirement – Test	Result – Remark	Verdict			
	ZB ANNEX (normative	e) SPECIAL NATIONAL CONDITIONS (EN)				
1.3.6	devices shall comply with Statuto	PUIPMENT is known as plug similar devices. Such bry Instrument 526:1997 - National Standards Electrical plugs, plug similar devices and sockets for	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; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT.					
5.1.2.1			N			
(A1:2010)	paragraph of the compliance clauded in this insulation is solid, including least consist of either - two layers of thin sheet material below, or - one layer having a distance through the electric strength test below. Alternatively for components, the the insulation consisting of an	n, add the following text between the first and second use: I insulation forming part of a component, it shall at the each of which shall pass the electric strength test ough insulation of at least 0,4 mm, which shall pass are is no distance through insulation requirements for sulating compound completely filling the casing, so AGE DISTANCES do not exist, if the component in accordance with the compliance clause below and criteria of 2.10.11 with an electric strength test of 1,5				
	kV multiplied by 1,6 (the electric skV), and - is subject to ROUTINE TESTIN test voltage of 1,5 kV.	G for electric strength during manufacturing, using a				
	It is permitted to bridge this insulation with an optocoupler 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. A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation					
	under the following conditions: - the insulation requirements are defined by EN 60384-14, which test of 2,5 kV defined in EN 6095	satisfied by having a capacitor classified Y3 as in addition to the Y3 testing, is tested with an impulse 0-1:2006, 6.2.2.1;				
	60384-14:	performed on all the test specimens as described in EN on performed before the endurance test in EN 60384-				

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EN 60950-1						
Clause	Requirement – Test	Result – Remark	Verdict			
	ZB ANNEX (normative)	SPECIAL NATIONAL CONDITIONS (EN)				
6.1.2.2	intended to be used in a RESTRIC bonding has been applied, e.g. in a provision for a permanently connection.	the exclusions are applicable for PERMANENTLY GGABLE EQUIPMENT TYPE B and equipment TED ACCESS LOCATION where equipotential a telecommunication centre, and which has cted PROTECTIVE EARTHING CONDUCTOR and installation of that conductor by a SERVICE	N			
7.2	In Finland , Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.					
7.3	In Norway and Sweden, for requir	ements see 1.2.13.14 and 1.7.2.1 of this annex.	N			
7.3	In Norway, for installation condition	ns see EN 60728-11:2005.	N			

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1.5.1 T	ABLE: list of critical components			P 🧄
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Mark(s) of conformity
Input wire	SHENZHEN DONGZHANWANG ELECTRONIC CO LTD	1007	24AWG, 80℃	UL E362344
Fusible resister (F1)	SHENZHEN GREAT ELECTRONICS CO LTD	RXF	3.3ohm,1W	Evaluated in the report
Electrical capacitor (C1, C2)	Various	Various	400V, 10uF, 105°C	
Transformer (T1)	CSEC	CS12F-050-071	Class B	Test with equipment
-Bobbin	CHANG CHUN PLASTICS CO LTD	T375J	Min. 0.75mm,V-0, 150°C	UL E59481
-Таре	HAINING CHULONG TAPE CO LTD	CLtape	130°C	UL E464604
-Magnet Wire	SHANTOU SHENGANG ELECTRICALINDUSTRIAL COLTD	xUEW	130°C	UL E239508
-Triple Insulation wire	SHENZHEN JIUDING NEW MATERIAL CO., LTD.	DTIW-B	130°C	VDE 40037495
Glue	SHENZHEN JADOBLO SCIENCE & TECHNOLOGY CO LTD	JDB805, JCB807	V-0, 105°C	UL E343835
Electrical capacitor(C6, C7)	Various	Various	6.3V, 1000uF, 105°C	- A. A.
РСВ	Various	Various	V-0, 130°C	UL ZPMV2
Output wire	DONGGUAN XIEHE WIRE CO LTD	2468	20AWG, 80℃	UL E251491
Enclosure	SABIC INNOVATIVE PLASTICS B V	940(f1)	Min. 1.5mm, V-0, 130°C	UL E121562
Enclosure (plug holder)	SABIC INNOVATIVE PLASTICS B V	940(f1)	Min. 1.5mm, V-0, 130°C	UL E121562
Note(s):	0, 10	-124 April 10	470	V

1.6.2	TABLE: el	lectrical data (i	n normal conditions)			(in normal conditions)			Р
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status			
90V/50Hz	0.252	-0	14.081	F 1	0.252	Maximum normal load.			
90V/60Hz	0.253		14.041	F1	0.253	Maximum normal load.			
100V/50Hz	0.230	0.5	13.902	F1	0.230	Maximum normal load.			
100V/60Hz	0.232	0.5	13.893	F1	0.232	Maximum normal load.			

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240V/50Hz	0.123	0.5	13.735	F1	0.123	Maximum normal load.
240V/60Hz	0.123	0.5	13.741	F1	0.123	Maximum normal load.
264V/50Hz	0.116		13.820	F1	0.116	Maximum normal load.
264V/60Hz	0.116		13.793	F1	0.116	Maximum normal load.

2.1.1.5c)1) TABLE:	max. V, A, VA test		- T	Р
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
5.0	2.0	5.24	2.69	14.10
Note(s):	. 1	3.7°	10, A	/

2.1.1.5c)2)	TABLE: stored energy	San Maria			45 July 1	4	N
	Capacitance C (µF)		Vo	Itage U (V)		Energ	y E (J)
	<u>,0 - 39 </u>		- To 100	1		_	_
Note(s):	<i>y</i>	NO. COLOR	4 3 5 5	70		4	

2.2	TABLE: evaluation of voltage limiting con	components in SELV circuits				
Component (measured between)		max. voltage (V) (Voltage Limiting			
		Vpeak	Vd.c.	Components		
	T1 🔷 🥠	35.1	-	- 45		
Fault test p	performed on voltage limiting components	Voltage measured (V) in SELV circuits (V peak or V d				
	**** = %**		- 4s	-0"		
Note(s):	· - O · · ·	The desire	100	20		

2.5	TABLE: limited power source measurement				Р
Measured Uoc (V) with all load circuits disconnected:		Isc (A	A)	VA	
		Meas.	Limit	Meas.	Limit
	Normal	2.69	8	14.10	100
D8, S-C		0	8	0	100
Note(s): S-C	=Short circuit	_ % _ / * *		4	De de la companya de

2.10.2	TABLE: Working	ABLE: Working voltage measurement			Р
Location		RMS voltage (V)	Peak voltage (V)	Comr	ments
T1:	pin 1 to pin 7	212	462		- 6
T1:	pin 2 to pin 7	185	402	*	- 4, 3

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T1: pin 5 to pin 7	184	380	·
T1: pin 4 to pin 7	239	516	45 70 25 70
T1: pin 1 to pin 6	215	464	- G
T1: pin 2 to pin 6	184	405	6 -0
T1: pin 5 to pin 6	184	381	O ¥ .3
T1: pin 4 to pin 6	247	526	Max. V _{peak} & V _{rms}

Note(s): --

2.10.3 and 2.10.4	TABLE: clearance	ABLE: clearance and creepage distance measurements					
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)
	es of different re Fusible resister	<420	<250	1.5	>10	2.5	>10
Trace under	fusible resister	<420	<250	1.5	3.4	2.5	3.4
Trace under	T1	526	247	4.2	7.2	5.0	7.2
Trace under secondary ci	primary circuit to rcuit	<420	<250	4.0	7.4	5.0	7.4
Note(s):	All Property of	and the second	10	1	À.	11 de 18	19/

2.10.5 TABLE: distance through insulation measurements					
Distance th	rough insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)
Primar	y circuit to accessible enclosure	240	3000	0.4	Enclosure 1.5
	Bobbin	240	3000	0.4	Min. 0.75
	2 layers of insulating tape	240	3000	3 layers	3 layers
Note(s):	-	AST STORES	Marie Contraction	0 1	_

4.3.8	TABLE: Batt	ABLE: Batteries						N	
The tests of 4 not available	3.8 are appli	cable only v	when approp	riate batter	y data is	67	A CONTRACTOR OF THE CONTRACTOR	O	N
Is it possible to	o install the b	attery in a r	everse pola	rity position	?	20			N
	Non-red	chargeable	batteries			Rechargeal	ole batteri	es	
	Disch	arging	Uninten-	Cha	rging	Discha	arging	Reverse	Charging
	Meas. Current	Manuf. Specs.	tional charging	Meas. Current	Manuf. Specs.	Meas. Current	Manuf. Specs.	Meas. Current	Manuf. Specs.
Max. current during normal condition	-	<u> </u>		The state of the s		\$ 2 m	100		- 4

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Max. current during fault condition	<u> </u>	-		Co	F. C.			T. de la constitución de la cons	The state of the s
Test results:	Ed.	6)"	46	,	•	15 July 2	9	ign c	Verdict
- Chemical leaks	~(0			4	4.	_100	10		? - ,
- Explosion of the	e battery			A Same	19.00				- To
- Emission of flar	ne or expu	Ilsion of molte	n metal	A COLUMN TO THE PARTY OF THE PA	10,	V		À	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- Electric strengtl	n tests of e	equipment afto	er comp	etion of tests	9		- W	disto.	
Note(s):				V	100	r.C	All a constitution	20	4

4.3.8	TABLE: Batteries			N
Battery ca	ategory	-0"	-0	10 M
Manufacti	ırer:	9	153 July 2	A STATE OF THE STA
Type/mod	el:	-	4	29/
Voltage, 0	Capacity:	A B A	e the co	
Circuit pro	otection diagram:		7 7	1
	*			
MARKING	GS AND INSTRUCTIONS (1.7.13)			8,3° GY
Location of	of replaceable battery		4.7	
Language	e(s)		Manage Com	
Close to t	he battery:	- 6		45.45
In the ser	vicing instructions:			
In the ope	rating instructions			-0"
Note(s):	G V	尓	No. of the second	_0

4.5	TABLE: maximum temperatures			P
	Test voltage (V):	a):100V×0.9/60Hz b):240V×1.1/50Hz;	7 29	
maximum temperature T of part/at:		Т ("	°C)	allowed
IIIaxiiiiuiii	rtemperature i or partrat.	a)	b)	Tmax (°C)
Input wire		70.8	63.0	80
L1 windin	g Age	75.4	66.1	110
C1		72.9	63.5	105
C2	William Co	82.9	75.6	105
PCB near	· Q1	93.7	91.6	130
T1 windin	g	95.5	97.2	110
T1 core		95.4	97.2	110

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PCB near T1	A Marian		10	00.2	1	01.3	130
C5	All and the second	-3	7-	4.4		75.5	105
L2 winding			8	7.7		39.5	110
C6			9	6.7		97.5	105
Output wire		40	6	8.1		69.4	80
Internal enclosure near T1		Mary Mary	6	8.7		69.1	130
External enclosure near T1	No.	6)*	6	1.1	(60.9	95
Ambient	_0		4	0.0	4	10.0	
Temperature T of winding	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation Class
		42			9	<u></u>	

4.5.5	TABLE: ball pressure test of thermoplastic parts	A STATE OF THE STA	To de de la constante de la co	Р
A September 1	allowed impression diameter (mm):	≤2 mm		
Part		Test temperature(°C)	Impressior (mi	
	Plug hold of enclosure	125	1.	3
Note(s):	(A) (O)	45. W	Marin Co.	40

4.7	TABLE: Resistance to fire	Ar North			Р
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
- /s		-	* ,	48,47	C. 74
Note(s): Refe	er to table 1.5.1		A Cartain	M. Jan	0

5.1	TABLE: touch current measurement			Р
Measured be	etween:	Measured(mA)	Limit(mA)	Comments/conditions
*	L/N and output	0.04	0.25	All don
一种	L/N and enclosure	0	0.25	- V
Note(s):	6 V &	46		-0

5.2	TABLE: electric strength tests and impulse to	ests	P
Test volta	age applied between:	Test voltage (V)	Breakdown
Constant	L/N and enclosure	3000	No breakdown
S Copy	L/N and output	3000	No breakdown
	T1 primary to secondary	3000	No breakdown
T	T1 core to secondary	3000	No breakdown

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Note(s): --

TABLE: fault con	dition tests				Р
ambient temperature (°C):				24.3	(b)
rated markings of power supply:					- 0
no. Fault	Test voltage (V)	Test time	Fuse no.	Result	
S-C	264V	10min	F1 🗼	Unit shutdown immediately,no output, no hazards.	
O-L	264V	4h	F1	Until shutdown. Max. Temprature T1 coil= 94.7°C, no hazards.	
: S-C	264V	10min	F1	Unit shutdown immediately, no damage and hazards.	
: O-L	264V	4.5h	F1	Unit run into cycle protect, Max. Temprature T1 coil= 95.1°C, no hazards.	
Pin+ and S-C	-, 264V	1min	F1	F1 opened immediately, no damage, no hazards.	
S-C	264V	1min	F1	F1 opened immediately, no damage, no hazards.	
S-C	264V	10min	F1	Unit shutdown immediately, no damage and hazards.	
Pin B-E, S-	-C 264V	5min	F1	Unit shutdown, no damage and hazards	
Pin B-C, S-	-C 264V	1min	F1	F1 opened immediately, no damage, no hazards.	
Pin C-E, S	-C 264V	1min	F1	F1 opened immediately, no damage, no hazards.	
Pin 3-6, S-	·C 264V	1min	F1	F1 opened immediately, no damage, no hazards.	
Pin 1-3, S	-C 264V	10min	F1 💨	Unit shutdown immediately, no damage and hazards.	
S-C	264V	10min	F1	Unit shutdown immediately, no damage and hazards.	
S-C	264V	10min	F1	Unit shutdown immediately, no damage and hazards.	
	ambient tempera rated markings o no. Fault S-C O-L S-C O-L Pin+ and S-C S-C S-C Pin B-E, S- Pin B-C, S- Pin C-E, S- Pin 3-6, S- Pin 1-3, S	rated markings of power supply no. Fault Test voltage (V) S-C 264V O-L 264V S-C 264V O-L 264V Pin+ and -, S-C 264V S-C 264V S-C 264V Pin B-E, S-C 264V Pin B-E, S-C 264V Pin C-E, S-C 264V Pin 3-6, S-C 264V Pin 1-3, S-C 264V	ambient temperature (°C) rated markings of power supply no. Fault Test voltage (V) Test time S-C 264V 10min O-L 264V 4h S-C 264V 10min D-L 264V 4.5h Pin+ and -, S-C 264V 1min S-C 264V 1min Pin B-E, S-C 264V 1min Pin B-E, S-C 264V 1min Pin B-C, S-C 264V 1min Pin C-E, S-C 264V 1min Pin 3-6, S-C 264V 1min Pin 1-3, S-C 264V 1min	ambient temperature (°C)	rated markings of power supply

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Attachment A Photos of product



Fig.1 - overview



Fig.2 - overview

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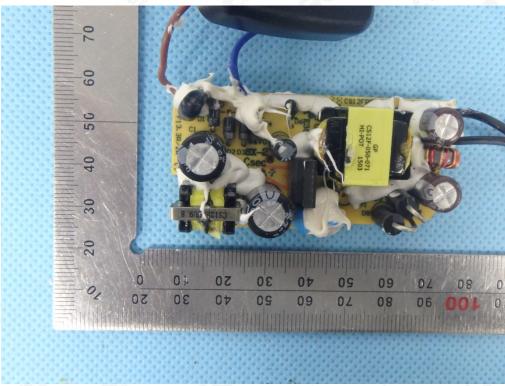


Fig.3 - Above circuit

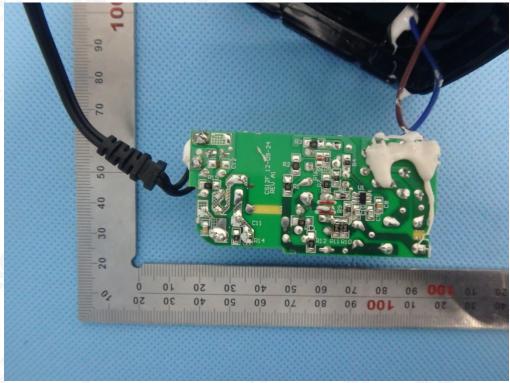


Fig.4 – Bottom circuit

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