

LVD TEST REPORT

CE-LVD TEST REPORT

Prepared for :

Product: Wireless Charger Trade Name: N/A Model Name: Date of Test: Aug. 12, 2019 to Aug. 22, 2019 Date of Report: Aug. 22, 2019 Report Number: HK1908011866-SR

Prepared By :

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TEST REPORT IEC 60950-1 Information technology equipment – Safety – Part 1: General requirements

Report Number:	HK1908011866-SR		
Date of issue:	2019-08-22		
Total number of pages:	62		
Applicant's name:			
Address:			0*
Test specification:			and mular
Standard:	EN 60950-1:2006+A11:	2009+A1:2010+A12:2	2011+A2:2013
Test procedure:	CE-LVD		
Non-standard test method::	N/A		
Test Report Form No:	IEC60950_1F		
Test Report Form(s) Originator :	SGS Fimko Ltd		
Master TRF:	Dated 2014-02		
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General disclaimer:	AK The St.	HUARTE	muan
The test results presented in this report	relate only to the object to	ested.	
Test item description	Wireless Charger	ann	-1945
Trade Mark	N/A		
Manufacturer	Same as applicant		
Model/Type reference	CD-1025		
Patings	Micro USB Input: 5V	2A, Class III	

Wireless Output: 5V ---- 1A

TRF No. IEC60950_1F

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Tes	ting procedure and testing location:		
\boxtimes	Testing Laboratory:	Shenzhen HUAK T	esting Technology Co., Ltd.
Tes	ting location/ address:		nfeng Zhongcheng Zhizao Innovation munity, Fuhai Street, Bao'an District,
	Associated Testing Laboratory:		TSTOP
Tes	ting location/ address:	UAK TESTING	O HUN TO THE
Tes	ted by (name + signature):	Jason Cheng	HETC .
Арр	proved by (name + signature):	Dendi Wei	APPROVAL
	Testing procedure: TMP/CTF Stage 1:		71145
Tes	ting location/ address:		
Tes	ted by (name + signature):		(TSTRA
App	proved by (name + signature):	ARK TESTRA	O W TO THE TANK THE TANK
	Testing procedure: WMT/CTF Stage 2:		-57845
Tes	ting location/ address:	A TESTING OF TO	TETRE ATTETRE
Tes	ted by (name + signature):	w	O ton O ton
Wit	nessed by (name + signature)		
App	proved by (name + signature):	2015	des des
	Testing procedure: SMT/CTF Stage 3 or 4:	O. ^{n.e}	0
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App	proved by (name + signature):	risting O Ho	and asing (
100	pervised by (name + signature)	and JAM	WTP

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List of Attachments (including a total number of pages in each attachment):

- 1, For requirements of European group differences. (19 pages)
- 2, Photo attachments.(3 pages)

Summary of testing:

Tests performed (name of test and test clause):

- 1 General
- 2 Protection from hazards
- 3 Wiring, connections and supply
- 4 Physical requirements Abnormal operating and fault
- 5 conditions

Testing location:

Shenzhen HUAK Testing Technology Co., Ltd. 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

Summary of compliance with National Differences: List of countries addressed European group differences.

The product fulfils the requirements of <u>EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013.</u>

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Copy of marking plate: The artwork below may be only a draft. Wireless Charger Model: CD-1025 Micro USB Input: 5V==2A Wireless Output: 5V===1A

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Test item particulars:	Wireless Charger
Equipment mobility	[x] movable [] hand-held [] transportable [] stationary [] for building-in [] direct plug-in
Connection to the mains:	[] pluggable equipment [] type A [] type B [] permanent connection [] detachable power supply cord [] non-detachable power supply cord [x] not directly connected to the mains
Operating condition	[x] continuous [] rated operating / resting time:
Access location	[x] operator accessible [] restricted access location
Over voltage category (OVC)	[] OVC I [] OVC II [] OVC III [] OVC IV [x] other:
Mains supply tolerance (%) or absolute mains supply values	N/A
Tested for IT power systems	[] Yes [x] No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	[] Class I [] Class II [x] Class III 🦽 🕬
Considered current rating of protective device as part of the building installation (A)	16A
Pollution degree (PD)	[] PD 1 [x] PD 2 [] PD 3
IP protection class:	IP20
Altitude during operation (m)	Up to 2000m
Altitude of test laboratory (m)	Below 2000m
Mass of equipment (kg)	Approx. 0.1kg

	Possible test case verdicts:	
	- test case does not apply to the test object::	N/A
5	- test object does meet the requirement::	P (Pass)
	- test object does not meet the requirement:	F (Fail)

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General remarks:

"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.

Throughout this report a \Box **comma /** \boxtimes **point is used as the decimal separator.** The related applicable OSM decisionshave been considered and therequirements found fulfilled. Determination of the test result includes consideration of measurement uncertainty from the test

equipment and methods.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided

Not applicable

Yes

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies): : Same as manufacturer

General product information:

The product is Wireless Phone Charger to be indoor use, electronic components mounted on PCB, external enclosure is plastic material of min. V-1 grade.

The products only suitable connected to the Power supply which has been certified.

Maximum recommended ambient (Tmra): 25°C

N.C.

Abbreviations used in the report:

- normal conditions
- functional insulation **OP**
- double insulation **DI**
- between parts of opposite polarity BOP
- single fault conditions
 basic insulation
 supplementary insulation
- BI SI

RI

S.F.C

- reinforced insulation

Indicate used abbreviations (if any)

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		Page 8 of 62	Report No.: HK1	908011866-SR
STRUG	TESTING ON	IEC 60950-1	C MARCE	TESTING OF
Clause	Requirement + Test	C HUNN	Result - Remark	Verdict

1	GENERAL	- Alter	P
	auther the construction construction	- INDAY TES	
1.5	Components		Р
1.5.1	General	- TESTING	Р
	Comply with IEC 60950-1 or relevant component standard	(see appended tables 1.5.1)	Р
1.5.2	Evaluation and testing of components	Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this standard.	P
		Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component standard.	14G
	ese Onerterne Anterne	Components, for which no relevant IEC-standard exists, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.	
1.5.3	Thermal controls	No thermal control.	N/A
1.5.4	Transformers	Class III equipment	N/A
1.5.5	Interconnecting cables		Р
1.5.6	Capacitors bridging insulation		N/A
1.5.7	Resistors bridging insulation	-STAG	s [©] N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	O mue .	N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	- MAKITSING	N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	O martin	N/A
1.5.8	Components in equipment for IT power systems	IAK TEST	N/A
1.5.9	Surge suppressors	-STING	N/A
1.5.9.1	General	A HUAK THE A HUAR	N/A
1.5.9.2	Protection of VDRs		N/A
1.5.9.3	Bridging of functional insulation by a VDR		N/A
1.5.9.4	Bridging of basic insulation by a VDR	is resting	N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	O man	N/A

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STING	TESTIC OF	IEC 60950-1	D Ho	TESTING OF
Clause	Requirement + Test	CO HUND	Result - Remark	Verdict

1.6	Power interface	G STING	P
1.6.1	AC power distribution systems	Not directly connected to the mains	N/A
1.6.2	Input current	(see appended table 1.6.2)	Р
1.6.3	Voltage limit of hand-held equipment	The equipment is not handheld equipment	N/A
1.6.4	Neutral conductor		N/A

1.7	Marking and instructions	104-27	Р
1.7.1	Power rating and identification markings	The required marking is located on the outside surface of the equipment.	Ρ
1.7.1.1	Power rating marking	See below	е́Р
	Multiple mains supply connections	Only one mains supply connections.	N/A
	Rated voltage(s) or voltage range(s) (V)	See marking	Р
15	Symbol for nature of supply, for d.c. only		Р
O HUM	Rated frequency or rated frequency range (Hz):	O ¹⁰¹	N/A
	Rated current (mA or A)	See marking	Р
1.7.1.2	Identification markings	See below	Р
. O ^m	Manufacturer's name or trade-mark or identification mark	See marking	Р
	Model identification or type reference	See marking	Р
6	Symbol for Class II equipment only	- Charl	N/A
0	Other markings and symbols	Additional symbols or marking do not give rise to misunderstanding.	Ρ
1.7.1.3	Use of graphical symbols	and the film and	N/A
1.7.2	Safety instructions and marking	See below.	Р
1.7.2.1	General		Р
1.7.2.2	Disconnect devices	Not directly connected to the mains	N/A
1.7.2.3	Overcurrent protective device	- HUAK TES	N/A
1.7.2.4	IT power distribution systems		N/A
1.7.2.5	Operator access with a tool		N/A
1.7.2.6	Ozone	The equipment does not produce Ozone.	N/A
1.7.3	Short duty cycles	The equipment is designed for continuous operation.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict	
1.7.4	Supply voltage adjustment	Full range voltage design, no Voltage adjustment.	N/A	
0	Methods and means of adjustment; reference to installation instructions	O num in O num i	N/A	
1.7.5	Power outlets on the equipment	No standard power outlet.	N/A	
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	Contraction of the second	N/A	
1.7.7	Wiring terminals	No such terminals	N/A	
1.7.7.1	Protective earthing and bonding terminals	Class III equipment	N/A	
1.7.7.2	Terminals for a.c. mains supply conductors	The equipment is not permanently connected or provided with a non-detachable power supply cord.	N/A	
1.7.7.3	Terminals for d.c. mains supply conductors	The equipment is not supplied from d.c mains.	N/A	
1.7.8	Controls and indicators	See below	N/A	
1.7.8.1	Identification, location and marking	No controls affecting safety	N/A	
1.7.8.2	Colours:	No indicators with colours where safety is involved	N/A	
1.7.8.3	Symbols according to IEC 60417	JAM TE-	N/A	
1.7.8.4	Markings using figures	TESTING ANTESTIC	N/A	
1.7.9	Isolation of multiple power sources	Only one connection supplying hazardous voltages and energy levels to the equipment.	N/A	
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices.	₀o N/A	
1.7.11	Durability	The marking plate was subjected to the permanence of marking test. The marking plate was rubbed with cloth soaked with water for 15s and then again for 15s with the cloth soaked with petroleum spirit. After this test there was no damage to the marking plate. The marking on the label did	P	
0"	O HULK	not fade.		
1.7.12	Removable parts		N/A	
1.7.13	Replaceable batteries		N/A	
	Language(s)	and the second the		
1.7.14	Equipment for restricted access locations:		N/A	

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Verdict

IEC 60950-1

Car La Carte				
Clause	Requirement + Test	HUAK	HURA	Result - Remark

Remark

2	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy hazar	ds	P 🖗
2.1.1	Protection in operator access areas	HILL.	Р
2.1.1.1	Access to energized parts	Class III equipment only	N/A
	Test by inspection	AN TESTIN	N/A
MAXITES	Test with test finger (Figure 2A)	O the subtreak	N/A
0.	Test with test pin (Figure 2B)	(0).	N/A
2005	Test with test probe (Figure 2C)	No TNV circuits within the equipment.	N/A
2.1.1.2	Battery compartments	No TNV circuits within the equipment	N/A
2.1.1.3	Access to ELV wiring	No ELV circuit	N/A
46	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)	(see appended tables 2.10.2 and 2.10.5)	
2.1.1.4	Access to hazardous voltage circuit wiring	No internal wiring at hazardous voltage circuit accessible to the operator.	N/A
2.1.1.5	Energy hazards	No energy hazard in operator access area. Checked by means of the test finger.	Ρ
2.1.1.6	Manual controls	No conductive shafts of operating knobs, handles, levers and the like in operator access areas.	N/A
2.1.1.7	Discharge of capacitors in equipment		N/A
	Measured voltage (V); time-constant (s)		
2.1.1.8	Energy hazards – d.c. mains supply	Not connected to DC mains supply	N/A
	a) Capacitor connected to the d.c. mains supply		N/A
NTE	b) Internal battery connected to the d.c. mains supply :	C HARTERS STERNE	N/A
2.1.1.9	Audio amplifiers		N/A
2.1.2	Protection in service access areas	AN TESTING	N/A
2.1.3	Protection in restricted access locations		N/A

2.2	SELV circuits		Р
2.2.1	General requirements	SELV limits are not exceeded under normal condition and after a single fault.	P
2.2.2	Voltages under normal conditions (V):	5VDC	Р
2.2.3	Voltages under fault conditions (V):	5VDC	Р

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2.2.4	Connection of SELV circuits to other circuits:	SELV circuits are only	Р
	15510G 15510G	connected to other SELV circuits.	ESTING

2.3	TNV circuits		N/A
2.3.1	Limits	No TNV circuits within the equipment.	N/A
0.	Type of TNV circuits		
2.3.2	Separation from other circuits and from accessible parts		N/A
2.3.2.1	General requirements	HUNK	N/A
2.3.2.2	Protection by basic insulation	~	N/A
2.3.2.3	Protection by earthing		N/A
2.3.2.4	Protection by other constructions:	1	N/A
2.3.3	Separation from hazardous voltages		N/A
	Insulation employed:		
2.3.4	Connection of TNV circuits to other circuits	UN TESTIN	N/A
T ALAX T	Insulation employed:	O' - HUAN TEST	
2.3.5	Test for operating voltages generated externally		N/A

	The second se		100 M
2.4	Limited current circuits	a testine and testin	N/A
2.4.1	General requirements	C RULE C RU	N/A
2.4.2	Limit values		N/A
5	Frequency (Hz)		
WC	Measured current (mA)	UNK TESTIC UNK TES	
0	Measured voltage (V)	0. 0.	
	Measured circuit capacitance (nF or µF)	TISTING	
2.4.3	Connection of limited current circuits to other circuits	and the second second	N/A

2.5	Limited power sources		N/A
ESTING	a) Inherently limited output	as restriction and restriction	N/A
(b) Impedance limited output	(see appended table 2.5)	N/A
n ^G	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	anna	N/A
	Use of integrated circuit (IC) current limiters	(See Annex CC)	N/A
	d) Overcurrent protective device limited output	(see appended table 2.5)	N/A

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STING	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
ali a	Max. output voltage (V), max. output current (A), max. apparent power (VA)	200	_
	Current rating of overcurrent protective device (A) .:	ALAK TES	

2.6	Provisions for earthing and bonding	TESTING	N/A
2.6.1	Protective earthing	Class III equipment	N/A
2.6.2	Functional earthing	Carlos and	N/A
	Use of symbol for functional earthing		_
2.6.3	Protective earthing and protective bonding conductors		N/A
2.6.3.1	General		N/A
2.6.3.2	Size of protective earthing conductors		N/A
NG.	Rated current (A), cross-sectional area (mm ²), AWG	8	
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm ²), AWG	The Termer	
O HUNK TE	Protective current rating (A), cross-sectional area (mm ²), AWG	O mustrest	
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min)	SACTOSTICO - TOSTICO	N/A
2.6.3.5	Colour of insulation	O HUM O HUM	N/A
2.6.4	Terminals		N/A
2.6.4.1	General		N/A
2.6.4.2	Protective earthing and bonding terminals	AND TESTING AND TES	N/A
0	Rated current (A), type, nominal thread diameter (mm)		
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	Charles to the strength of the	N/A
2.6.5	Integrity of protective earthing	0,00	N/A
2.6.5.1	Interconnection of equipment	IN TESTOR	N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	-	N/A
2.6.5.3	Disconnection of protective earth		N/A
2.6.5.4	Parts that can be removed by an operator		N/A
2.6.5.5	Parts removed during servicing	- TING	N/A
2.6.5.6	Corrosion resistance	hubberts hubberts	N/A
2.6.5.7	Screws for protective bonding		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.6.5.8	Reliance on telecommunication network or cable	a.)	N/A

-	with a with a with	and the second s	i
2.7	Overcurrent and earth fault protection in primary	y circuits	N/A
2.7.1	Basic requirements	Class III equipment	N/A
in maxin	Instructions when protection relies on building installation	O HUNN COMPANY	N/A
2.7.2	Faults not simulated in 5.3.7		
2.7.3	Short-circuit backup protection		N/A
2.7.4	Number and location of protective devices:	upt -	N/A
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel:		N/A

2.8	Safety interlocks	3	N/A
2.8.1	General principles	No safety interlocks or similar devices within the equipment	N/A
2.8.2	Protection requirements	- HUNK TED	N/A
2.8.3	Inadvertent reactivation	C HILL	N/A
2.8.4	Fail-safe operation	-STING	N/A
	Protection against extreme hazard	Jukin	N/A
2.8.5	Moving parts	WATESTING - WANTEST	N/A
2.8.6	Overriding		N/A
2.8.7	Switches, relays and their related circuits		N/A
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)	in the first of the sector	N/A
2.8.7.2	Overload test	0 ¹¹	N/A
2.8.7.3	Endurance test	- mill	N/A
2.8.7.4	Electric strength test	(see appended table 5.2)	N/A
2.8.8	Mechanical actuators	Contract in	N/A

2.9	Electrical insulation	5 C C C C C C C C C C C C C C C C C C C		N/A
2.9.1	Properties of insulating materials	NK TESTER	UAKTESI	N/A
2.9.2	Humidity conditioning	O man	0.	N/A
	Relative humidity (%), temperature (°C):			
2.9.3	Grade of insulation	and		N/A
2.9.4	Separation from hazardous voltages	- HUAK TEST	- HUAK TES	N/A
O	Method(s) used	0	C.	

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2.10	Clearances, creepage distances and distances t	hrough insulation	P
2.10.1	General	See below.	
2.10.1.1	Frequency	Considered.	Р
2.10.1.2	Pollution degrees	Pollution Degree 2.	Р
2.10.1.3	Reduced values for functional insulation	The is no requirement for functional insulation	N/A
2.10.1.4	Intervening unconnected conductive parts	Considered	—
2.10.1.5	Insulation with varying dimensions	No such transfomer used.	N/A
2.10.1.6	Special separation requirements	Special separation is not used.	N/A
2.10.1.7	Insulation in circuits generating starting pulses	The circuit will not generate starting pulse.	N/A
2.10.2	Determination of working voltage		N/A
2.10.2.1	General		
2.10.2.2	RMS working voltage		N/A
2.10.2.3	Peak working voltage	TESTING	N/A
2.10.3	Clearances	O 10 ¹⁰ at Testine	N/A
2.10.3.1	General	0,**	
2.10.3.2	Mains transient voltages	W TESTER	N/A
STING	a) AC mains supply	Not directly connected to the a c mains	N/A
Ŷ	b) Earthed d.c. mains supplies:	Not directly connected to the d c mains	N/A
de de	c) Unearthed d.c. mains supplies:	Not directly connected to the d c mains	N/A
6	d) Battery operation	O HUM O HUM	N/A
2.10.3.3	Clearances in primary circuits	(see appended table 2.10.3 and 2.10.4)	N/A
2.10.3.4	Clearances in secondary circuits	Only the functional insulation in secondary circuits complied with clause 5.3.4.	N/A
2.10.3.5	Clearances in circuits having starting pulses	Jak The	N/A
2.10.3.6	Transients from a.c. mains supply	Not connected to a c mains supply.	N/A
2.10.3.7	Transients from d.c. mains supply:	Not connected to d.c mains supply.	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems	Not connected to telecommunication networks and cable distribution systems.	N/A
2.10.3.9	Measurement of transient voltage levels	See below.	_

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Clause	Requirement + Test	Result - Remark	Verdict
	a) Transients from a mains supply	Measurement not relevant.	N/A
NG.	For an a.c. mains supply	-STING -ST	N/A
<i>(</i> 35)	For a d.c. mains supply	Church Church	N/A
, e	b) Transients from a telecommunication network :	Not connected to telecommunication networks.	N/A
2.10.4	Creepage distances	See below.	N/A
2.10.4.1	General	Considered.	N/A
2.10.4.2	Material group and comparative tracking index	See below.	N/A
ESTING	CTI tests:	Material group IIIb is assumed to be used	—
2.10.4.3	Minimum creepage distances	(see appended table 2.10.3 and 2.10.4)	N/A
2.10.5	Solid insulation	See below.	N/A
2.10.5.1	General	Considered.	N/A
2.10.5.2	Distances through insulation	(see appended table 2.10.5)	N/A
2.10.5.3	Insulating compound as solid insulation	TON	N/A
2.10.5.4	Semiconductor devices	A HURLES	N/A
2.10.5.5.	Cemented joints	(see appended table 2.10.3 and 2.10.4)	N/A
2.10.5.6	Thin sheet material – General	JAK TEST	N/A
2.10.5.7	Separable thin sheet material	ITSTNG ATSTN	N/A
	Number of layers (pcs)	O HUNT O HUN	
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procedure		N/A
	Electric strength test	(see appended table 2.10.5)	
2.10.5.10	Thin sheet material – alternative test procedure	0	N/A
	Electric strength test	(see appended table 2.10.5)	
2.10.5.11	Insulation in wound components	an HUAKIN - STING	N/A
2.10.5.12	Wire in wound components	in the second second	N/A
<i>W</i>	Working voltage	TSING .	N/A
	a) Basic insulation not under stress	Dan .	N/A
ESTR.	b) Basic, supplementary, reinforced insulation:	UNATESIN' - HUNKTESI	N/A
0	c) Compliance with Annex U	0	N/A
aG.	Two wires in contact inside wound component; angle between 45° and 90°		N/A
2.10.5.13	Wire with solvent-based enamel in wound components	No wire with solvent-based enamel in wound components.	N/A
	Electric strength test	(see appended table 2.10.5)	

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Clause	Requirement + Test	Result - Remark	Verdic
	Routine test		N/A
2.10.5.14	Additional insulation in wound components	STAR	N/A
<i>6</i> 5	Working voltage	a hubber	N/A
V	- Basic insulation not under stress		N/A
	- Supplementary, reinforced insulation	IN TESTING	N/A
2.10.6	Construction of printed boards	See below.	N/A
2.10.6.1	Uncoated printed boards	(see appended table 2.10.3 and 2.10.4)	N/A
2.10.6.2	Coated printed boards	(see appended table 2.10.3 and 2.10.4)	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	(see appended table 2.10.3 and 2.10.4)	N/A
2.10.6.4	Insulation between conductors on different layers of a printed board		N/A
	Distance through insulation	(see appended table 2.10.5)	N/A
	Number of insulation layers (pcs)		N/A
2.10.7	Component external terminations	Coatings not used over terminations to increase effective creepage and clearance distances.	N/A
2.10.8	Tests on coated printed boards and coated components	No special coating in order to reduce distance.	N/A
2.10.8.1	Sample preparation and preliminary inspection	autor the mark in	N/A
2.10.8.2	Thermal conditioning		N/A
2.10.8.3	Electric strength test	(see appended table 5.2)	N/A
2.10.8.4	Abrasion resistance test	TSTACE TS	N/A
2.10.9	Thermal cycling	A HUNK A HUNK	N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound	- TSTING	N/A
2.10.11	Tests for semiconductor devices and cemented joints	Caulton Caulton Caulton	N/A
2.10.12	Enclosed and sealed parts	a restruct	N/A
3	WIRING, CONNECTIONS AND SUPPLY	UM ESTING ESTIN	Р
3.1	General	- HUAR	Р

3.1	General	Contraction Contraction	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	Wireways are smooth and free from edges. Wires are adequately fixed to prevent excessive strain on wire and terminals and avoiding damage to the insulation of the conductors.	P
3.1.3	Securing of internal wiring	Internal wiring is secured against excessive strain, loosening of terminals and damage to the conductor insulation.	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 beads or similar ceramic insulators on conductors.	N/A
3.1.6	Screws for electrical contact pressure	- 660-	N/A
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	Р
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors	Terminations cannot become displaced so that clearances and creepage distances can be reduced.	P
	10 N pull test	Conducted.	Р
3.1.10	Sleeving on wiring		N/A

3.2	Connection to a mains supply	O the O the	N/A
3.2.1	Means of connection	See below	N/A
3.2.1.1	Connection to an a.c. mains supply	- HUANTE	N/A
3.2.1.2	Connection to a d.c. mains supply	The equipment is not for connection to a d.c. mains supply.	N/A
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment	The equipment is not intended for permanent connection to the mains.	N/A
plG.	Number of conductors, diameter of cable and conduits (mm):		
3.2.4	Appliance inlets	Not directly connected to the mains	N/A
3.2.5	Power supply cords	TING	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.2.5.1	AC power supply cords		N/A
NG.	Туре:	TESTING TES	
0	Rated current (A), cross-sectional area (mm ²), AWG:	O rose O rose	—
3.2.5.2	DC power supply cords	The equipment is not for connecting to d.c. mains.	N/A
3.2.6	Cord anchorages and strain relief	Contraction of the second seco	N/A
<i>w</i>	Mass of equipment (kg), pull (N):		
STING	Longitudinal displacement (mm):	Longitudinal displacement less than 2mm	—
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards	No moving when it is intended to be operated	N/A
⁴ 6	Diameter or minor dimension D (mm); test mass (g)	5	
	Radius of curvature of cord (mm):		
3.2.9	Supply wiring space	-55 1145	N/A

			103
3.3	Wiring terminals for connection of external cond	luctors	N/A
3.3.1	Wiring terminals	Not directly connected to the mains	N/A
3.3.2	Connection of non-detachable power supply cords	UNX TESTIN - HUNK TEST	N/A
3.3.3	Screw terminals	0	N/A
3.3.4	Conductor sizes to be connected		N/A
dy.	Rated current (A), cord/cable type, cross-sectional area (mm ²):	- ARCTISTING	—
3.3.5	Wiring terminal sizes	00	N/A
	Rated current (A), type, nominal thread diameter (mm)	UNCTESTING THE	
3.3.6	Wiring terminal design	O'	N/A
3.3.7	Grouping of wiring terminals	- and	N/A
3.3.8	Stranded wire	UNK TES	N/A

3.4	Disconnection from the mains supply	O MARINE O MARINE	N/A
3.4.1	General requirement		N/A
3.4.2	Disconnect devices		N/A
3.4.3	Permanently connected equipment	Not directly connected to the mains	N/A
3.4.4	Parts which remain energized		N/A

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Clause	Requirement + Test	Result - Remark	(C)	Verdict
3.4.5	Switches in flexible cords			N/A
3.4.6	Number of poles – single-phase and d.c. equipment	- WANTESTING	- HURK TEST	o [©] N/A
3.4.7	Number of poles – three-phase equipment	W	(U)	N/A
3.4.8	Switches as disconnect devices	TESTING		N/A
3.4.9	Plugs as disconnect devices	ALL HUDA	A TESTING	N/A
3.4.10	Interconnected equipment	A	1400	N/A
3.4.11	Multiple power sources			N/A

3.5	Interconnection of equipment	INDEX .	Р
3.5.1	General requirements	Considered.	Р
3.5.2	Types of interconnection circuits:	SELV circuit.	Р
3.5.3	ELV circuits as interconnection circuits	1	[©] N/A
3.5.4	Data ports for additional equipment		Р

4	PHYSICAL REQUIREMENTS	Mula restrat	Р
4.1	Stability	O. ⁴⁰	N/A
	Angle of 10°	A TESTING	N/A
200	Test force (N)	117- Bun	N/A

4.2	Mechanical strength		Р
4.2.1	General	Complies with the requirement also after tests described below are applied.	P
	Rack-mounted equipment.	No rack-mounted equipment.	N/A
4.2.2	Steady force test, 10 N	No hazard, ref. Comment in appended table 2.10.3 – 2.10.4	Ρ
4.2.3	Steady force test, 30 N	Contraction of the second seco	N/A
4.2.4	Steady force test, 250 N	No hazards. The test is performed at plastic enclosure.	Ρ
4.2.5	Impact test		N/A
E HU	Fall test	A HOME TO A HURLING	N/A
	Swing test		N/A
4.2.6	Drop test; height (mm):		N/A
4.2.7	Stress relief test	No hazardous parts in the equipment	N/A
4.2.8	Cathode ray tubes	No cathode ray tubes provided	N/A
	Picture tube separately certified	CTING	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4.2.9	High pressure lamps		N/A
4.2.10	Wall or ceiling mounted equipment; force (N):	SING	N/A

4.3	Design and construction		Р
4.3.1	Edges and corners	All edges and corners are rounded and/or smoothed.	Ρ
4.3.2	Handles and manual controls; force (N):	No Handles, knobs, grips, levers and the like	N/A
4.3.3	Adjustable controls	No hazardous adjustable controls.	N/A
4.3.4	Securing of parts	No loosening of parts impairing creepage distances or clearances is likely to occur.	Ρ
4.3.5	Connection by plugs and sockets		N/A
4.3.6	Direct plug-in equipment	0	N/A
	Torque		
	Compliance with the relevant mains plug standard	- Martister	N/A
4.3.7	Heating elements in earthed equipment	and the second s	N/A
4.3.8	Batteries	STAG	N/A
	- Overcharging of a rechargeable battery	JAN	N/A
STAR.	- Unintentional charging of a non-rechargeable battery	(see appended table 4.3.8)	N/A
	- Reverse charging of a rechargeable battery	(see appended table 4.3.8)	N/A
~	- Excessive discharging rate for any battery		N/A
4.3.9	Oil and grease	Insulation in intended use not considered to be exposed to oil or grease.	N/A
4.3.10	Dust, powders, liquids and gases	The equipment does not produce dust or use powders, liquids and gases in the equipment.	N/A
4.3.11	Containers for liquids or gases	No container for liquids or gases used	N/A
4.3.12	Flammable liquids	The equipment does not contain flammable liquid	N/A
<u>o</u>	Quantity of liquid (I)		N/A
	Flash point (°C):		N/A
4.3.13	Radiation	- The	N/A
4.3.13.1	General	HUARTE	N/A
4.3.13.2	Ionizing radiation	The equipment does not generate ionizing radiation.	N/A

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	Measured radiation (Pa/kg)		_
NG.	Measured high-voltage (kV)	-ISTING -IS	_
65	Measured focus voltage (kV)	O MAR O MAR	—
	CRT markings		
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	The equipment does not produce significant UV radiation.	N/A
	Part, property, retention after test, flammability classification		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	The equipment does not produce significant UV radiation.	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs		N/A
4.3.13.5.1	Lasers (including laser diodes)		N/A
	Laser class		—
4.3.13.5.2	Light emitting diodes (LEDs)		
4.3.13.6	Other types	NTESTING.	N/A

4.4	Protection against hazardous moving parts	O C	N/A
4.4.1	General	No hazardous moving parts within the equipment	N/A
4.4.2	Protection in operator access areas	- AUAK TEST	N/A
	Household and home/office document/media shredders	(see Annex EE)	N/A
4.4.3	Protection in restricted access locations:		N/A
4.4.4	Protection in service access areas	WARTES !!	N/A
4.4.5	Protection against moving fan blades	0. 0.	N/A
4.4.5.1	General	STING	N/A
	Not considered to cause pain or injury. A)	A HUAR	N/A
O Hold	Is considered to cause pain, not injury. B)	Constanting of the second	N/A
STING	Considered to cause injury. C):	CALON TEST	N/A
4.4.5.2	Protection for users	Children Children	N/A
100	Use of symbol or warning:		N/A
4.4.5.3	Protection for service persons		N/A
10 AL	Use of symbol or warning:	all a second	N/A

4.5 Thermal requirements

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Clause	Requirement + Test	Result - Remark	Verdict
4.5.1	General		Р
4.5.2	Temperature tests	-SING -S	P
10	Normal load condition per Annex L:	A HUAN	
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 4.5.5)	Р

4.6	Openings in enclosures		N/A
4.6.1	Top and side openings	Openings no requirement	N/A
0,"	Dimensions (mm):	O.101	
4.6.2	Bottoms of fire enclosures		N/A
	Construction of the bottomm, dimensions (mm) :		
4.6.3	Doors or covers in fire enclosures	No doors or covers in fire enclosure.	N/A
4.6.4	Openings in transportable equipment		N/A
4.6.4.1	Constructional design measures	UN TESTIN	N/A
T HUNKT	Dimensions (mm):	O	
4.6.4.2	Evaluation measures for larger openings	200	N/A
4.6.4.3	Use of metallized parts	UNKTED	N/A
4.6.5	Adhesives for constructional purposes	TESTING ANTESTIN	N/A
0	Conditioning temperature (°C), time (weeks) :	Charles Charles	

4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame	Method 1 is used.	P
0	Method 1, selection and application of components wiring and materials	(see appended table 1.5.1)	Ρ
	Method 2, application of all of simulated fault condition tests	a num restan	N/A
4.7.2	Conditions for a fire enclosure	The product is protected by end product	N/A
4.7.2.1	Parts requiring a fire enclosure	JANK TE	N/A
4.7.2.2	Parts not requiring a fire enclosure	a TESTING ANY TESTING	N/A
4.7.3	Materials	O.M. O.	N/A
4.7.3.1	General		N/A
4.7.3.2	Materials for fire enclosures	õ.	N/A
4.7.3.3	Materials for components and other parts outside fire enclosures	Constant Con	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4.7.3.4	Materials for components and other parts inside fire enclosures	-	N/A
4.7.3.5	Materials for air filter assemblies	- WARTES - WARTE	N/A
4.7.3.6	Materials used in high-voltage components	.	N/A

5	ELECTRICAL REQUIREMENTS AND SIMULATED	ABNORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current	WHAT IS A REAL OF A REAL O	N/A
5.1.1	General		N/A
5.1.2	Configuration of equipment under test (EUT)		and the second
5.1.2.1	Single connection to an a.c. mains supply	- Wak "	N/A
5.1.2.2	Redundant multiple connections to an a.c. mains supply	¥ Ø	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N/A
5.1.3	Test circuit		N/A
5.1.4	Application of measuring instrument		N/A
5.1.5	Test procedure	UNK TESTIN	N/A
5.1.6	Test measurements	O	N/A
0	Supply voltage (V)	- Mile	
	Measured touch current (mA)	AKTED.	
STING	Max. allowed touch current (mA)	TESTING AKTEST	
0	Measured protective conductor current (mA):	O the O the	
	Max. allowed protective conductor current (mA):		
5.1.7	Equipment with touch current exceeding 3,5 mA	and a	N/A
5.1.7.1	General	NUME TEST	N/A
5.1.7.2	Simultaneous multiple connections to the supply	0.0	N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	Not connected to a telecommunication network or cable distribution systems	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	ar restric	N/A
STAR	Supply voltage (V)	ANTESTING MARTEST	
0.	Measured touch current (mA):	0	
	Max. allowed touch current (mA)		
5.1.8.2	Summation of touch currents from telecommunication networks	Not TESTING	N/A
0	a) EUT with earthed telecommunication ports:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
.8	b) EUT whose telecommunication ports have no reference to protective earth		N/A

5.2	Electric strength	0	N/A
5.2.1	General	(see appended table 5.2)	N/A
5.2.2	Test procedure	Nulses	N/A

5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal operation	See appended table 5.3	Ρ
5.3.2	Motors	No motor	N/A
5.3.3	Transformers	No transformers	N/A
5.3.4	Functional insulation	No requirement	N/A
5.3.5	Electromechanical components	These equipments don't have any electromechanical components	N/A
5.3.6	Audio amplifiers in ITE:	INTESTICE IN	N/A
5.3.7	Simulation of faults	see appended table 5.3	Р
5.3.8	Unattended equipment	These equipments don't intended for unattended use	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	See below	Ρ
5.3.9.1	During the tests	No fire or molten metal occurred and no deformation of enclosure during the tests.	Ρ
5.3.9.2	After the tests	No reduction of clearance and creepage distances. Electric strength test is made on functional, supplementary and reinforced insulation.	P

6	CONNECTION TO TELECOMMUNICATION NETWORKS		N/A
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment		N/A
6.1.1	Protection from hazardous voltages		N/A
6.1.2	Separation of the telecommunication network from earth		N/A
6.1.2.1	Requirements	(see appended table 5.2)	N/A
6	Supply voltage (V)		
	Current in the test circuit (Ma):	NAK TEST	
6.1.2.2	Exclusions	0. 0.	N/A

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6.2	Protection of equipment users from overvolta networks	ges on telecommunication	N/A
6.2.1	Separation requirements	- whether - whether	N/A
6.2.2	Electric strength test procedure		N/A
6.2.2.1	Impulse test	(see appended table 5.2)	N/A
6.2.2.2	Steady-state test	(see appended table 5.2)	N/A
6.2.2.3	Compliance criteria	and the second s	N/A

6.3	Protection of the telecommunication wiring system from overheating		N/A
ED HU	Max. output current (A)	HUNK	
<i>w</i>	Current limiting method		

7	CONNECTION TO CABLE DISTRIBUTION SYSTEM	AS	N/A
7.1	General		N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	D MIASTESTING	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	-STAR	N/A
7.4	Insulation between primary circuits and cable distribution systems	institute actuality	N/A
7.4.1	General	O HUND	N/A
7.4.2	Voltage surge test	(see appended table 5.2)	N/A
7.4.3	Impulse test	(see appended table 5.2)	N/A

Α	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE		
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)	and and testing	N/A
A.1.1	Samples	INSTESTIC	
SING	Wall thickness (mm)	-STAG TESTAG	_
A.1.2	Conditioning of samples; temperature (°C)	HUAN OHUM	N/A
A.1.3	Mounting of samples		N/A
A.1.4	Test flame (see IEC 60695-11-3)		N/A
Ware	Flame A, B, C or D	AN TESTING	
A.1.5	Test procedure	0	N/A
A.1.6	Compliance criteria	-105	N/A

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STANS	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Sample 1 burning time (s)		
NG	Sample 2 burning time (s)	-STING -ST	
0	Sample 3 burning time (s)	Charter Chart	
A.2	Flammability test for fire enclosures of movable not exceeding 18 kg, and for material and compo enclosures (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material	C HURL	
	Wall thickness (mm)		
A.2.2	Conditioning of samples; temperature (°C)		N/A
A.2.3	Mounting of samples	HUAK "	N/A
A.2.4	Test flame (see IEC 60695-11-4)		N/A
	Flame A, B or C		
A.2.5	Test procedure	5	i∮ N/A
A.2.6	Compliance criteria		N/A
	Sample 1 burning time (s)		
	Sample 2 burning time (s)	UN TESTING	
- max	Sample 3 burning time (s)	O TO	
A.2.7	Alternative test acc. To IEC 60695-11-5, cl. 5 and 9	actising 0	N/A
MAG	Sample 1 burning time (s)	or star	
6	Sample 2 burning time (s)	A HUMER AND A HUME	
Ŷ	Sample 3 burning time (s)		
A.3	Hot flaming oil test (see 4.6.2)		N/A
A.3.1	Mounting of samples	TESTING STEST	N/A
A.3.2	Test procedure	O HUN O HUN	N/A
A.3.3	Compliance criterion	26	N/A

B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)		N/A
B.1	General requirements	as result	N/A
STING	Position:	STING ITSTING	_
() ⁽¹⁾	Manufacturer	Charter Chart	
	Туре		
~	Rated values		
B.2	Test conditions	AN TESTING	N/A
B.3	Maximum temperatures	(see appended table 5.3)	N/A
B.4	Running overload test	(see appended table 5.3)	N/A

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	IEC 60950-1	-STAG TESTAV	
Clause	Requirement + Test	Result - Remark	Verdic
B.5	Locked-rotor overload test		N/A
20	Test duration (days)	STAG	
0	Electric strength test: test voltage (V):	Carolan Carolana	
B.6	Running overload test for d.c. motors in secondary circuits	15106	N/A
B.6.1	General	C HUN KTESTING	N/A
B.6.2	Test procedure	C Hor	N/A
B.6.3	Alternative test procedure		N/A
B.6.4	Electric strength test; test voltage (V):		N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	- Owner's	N/A
B.7.1	General		N/A
B.7.2	Test procedure		N/A کې
B.7.3	Alternative test procedure		N/A
B.7.4	Electric strength test; test voltage (V):		N/A
B.8	Test for motors with capacitors	(see appended table 5.3)	N/A
B.9	Test for three-phase motors	(see appended table 5.3)	N/A
B.10	Test for series motors	0 ⁴⁰	N/A
	Operating voltage (V):	W IESTON	

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C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)	HUNKING MUN	N/A
	Position:		
	Manufacturer		
PID 1	Туре	A TESTING	
0	Rated values	0 m	
	Method of protection:	-mu6	
C.1	Overload test	(see appended table 5.3)	N/A
C.2	Insulation	(see appended tables 5.2 and C2)	N/A
	Protection from displacement of windings:	JAK TEST	N/A

D	ANNEX D, MEASURING INSTRUMENTS FOR TOU (see 5.1.4)	JCH-CURRENT TESTS	N/A
D.1	Measuring instrument		N/A
D.2	Alternative measuring instrument	STING	N/A

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

N/A

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F	ANNEX F, MEASUREMENT OF CLEARANCES AN (see 2.10 and Annex G)	ND CREEPAGE	DISTANCES	[©] N/A
0		0	0	
G	ANNEX G, ALTERNATIVE METHOD FOR DETERI CLEARANCES	MINING MINIMU	M	N/A
G.1	Clearances	.	HUARTE	N/A
G.1.1	General		10000	N/A
G.1.2	Summary of the procedure for determining minimum clearances			N/A
G.2	Determination of mains transient voltage (V)	101.00	O Hole	N/A
G.2.1	AC mains supply	~		N/A
G.2.2	Earthed d.c. mains supplies			N/A
G.2.3	Unearthed d.c. mains supplies		55	N/A
G.2.4	Battery operation			N/A
G.3	Determination of telecommunication network transient voltage (V):	WTESTING		N/A
G.4	Determination of required withstand voltage (V)	0	MAKTESIN	N/A
G.4.1	Mains transients and internal repetitive peaks:	-NG	0.	N/A
G.4.2	Transients from telecommunication networks:	UNK TESIN		N/A
G.4.3	Combination of transients	<i>i</i>	THE TESTIN	N/A
G.4.4	Transients from cable distribution systems	A HUDR	O HOM	N/A
G.5	Measurement of transient voltages (V)			N/A
	a) Transients from a mains supply			N/A
	For an a.c. mains supply	NK TESTIN	N/TEST	N/A
0	For a d.c. mains supply	O HO	O to the	N/A
	b) Transients from a telecommunication network	-miG		N/A
G.6	Determination of minimum clearances::	WAX TES	SUNG	N/A

н	ANNEX H, IONIZING RADIATION (see 4.3.13)	-1015
		261

J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)		N/A
0	Metal(s) used	9	—

N/A

	К	ANNEX K, THERMAL CONTROLS (see 1.5.3 and \$	5.3.8)	₀ N/A
12	K.1	Making and breaking capacity	WANTED HUARTED	N/A
	K.2	Thermostat reliability; operating voltage (V)		N/A

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HUAT	Result - Remark	HUDI	Verdict

K.3	Thermostat endurance test; operating voltage (V)		N/A
K.4	Temperature limiter endurance; operating voltage (V)	O MARTEN O MARTEN	N/A
K.5	Thermal cut-out reliability	7010	N/A
K.6	Stability of operation	(see appended table 5.3)	N/A

L ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)			Р	
L.1	Typewriters		N/A	
L.2	Adding machines and cash registers	6 m	N/A	
L.3	Erasers	~	N/A	
L.4	Pencil sharpeners		N/A	
L.5	Duplicators and copy machines	5	N/A	
L.6	Motor-operated files		N/A	
L.7	Other business equipment		Р	

M	ANNEX M, CRITERIA FOR TELEPHONE RINGING	SIGNALS (see 2.3.1)	N/A
M.1	Introduction	STAG	N/A
M.2	Method A	July 1	N/A
M.3	Method B	UNTESTING - UNIX TEST	N/A
M.3.1	Ringing signal	0	N/A
M.3.1.1	Frequency (Hz)		
M.3.1.2	Voltage (V)	100	
M.3.1.3	Cadence; time (s), voltage (V)	HUNK THE	
M.3.1.4	Single fault current (Ma)		
M.3.2	Tripping device and monitoring voltage	N TESTING	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	a num	N/A
M.3.2.2	Tripping device	TESTING	N/A
M.3.2.3	Monitoring voltage (V)	The	N/A

N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	N/A
N.1	ITU-T impulse test generators	N/A
N.2	IEC 60065 impulse test generator	N/A

ANNEX P, NORMATIVE REFERENCES

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Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	
	- Preferred climatic categories	N/A
	- Maximum continuous voltage	N/A
	- Combination pulse current	N/A
() ^{m1}	Body of the VDR Test according to IEC60695-11-5	N/A
	Body of the VDR. Flammability class of material (min V-1)	N/A

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	N/A
R.2	Reduced clearances (see 2.10.3)	N/A

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		N/A
S.1	Test equipment	O THE STREET	N/A
S.2	Test procedure		N/A
S.3	Examples of waveforms during impulse testing	JAK TEST	N/A

T ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)		N/A	
		See separate test report	

U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)		N/A
	THE HUND	See separate test report	

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	
V.1	Introduction	N/A
V.2	TN power distribution systems	N/A

W	ANNEX W, SUMMATION OF TOUCH CURRENTS			N/A
W.1	Touch current from electronic circuits	oma	3	N/A
W.1.1	Floating circuits	HUAKIL	HUDKIL	N/A
W.1.2	Earthed circuits		No.	N/A

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W.2	Interconnection of several equipments			
W.2.1	Isolation	-SING	N/A	
W.2.2	Common return, isolated from earth	Charles Charles	N/A	
W.2.3	Common return, connected to protective earth	<i>.</i>	N/A	
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)			
X.1	Determination of maximum input current	C. Martin	N/A	
X.2	Overload test procedure		N/A	

Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	
Y.1	Test apparatus	N/A
Y.2	Mounting of test samples	N/A
Y.3	Carbon-arc light-exposure apparatus:	N/A
Y.4	Xenon-arc light exposure apparatus:	N/A

Z	ANNEX	Z, OVERVOLTAGE	ERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	N/A		
	TES IN	See the	TEST	Can Her	15510	100

- AA ANNEX AA, MANDREL TEST (see 2.10.5.8)
- BB ANNEX BB, CHANGES IN THE SECOND EDITION

CC	ANNEX CC, Evaluation of integrated circuit (IC) cu	<i>w</i>	N/A	
CC.1	General			N/A
CC.2	Test program 1	TSTING	15	N/A
CC.3	Test program 2	Contraction of the second	(B) HUAN	N/A
CC.4	Test program 3			N/A
CC.5	Compliance:	ALLAN TESTA	SUNG	N/A

DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment			
DD.1	General	and the second second	N/A	
DD.2	Mechanical strength test, variable N	UNK TESTIC	N/A	
DD.3	Mechanical strength test, 250N, including end stops	0	N/A	
DD.4	Compliance	<i>x</i>	N/A	

	EE	ANNEX EE, Household and home/office document/media shredders		N/A
10	EE.1	General	316	N/A

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Verdict

N/A

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T	Markinga and instructions			
+	Markings and instructions			
	Use of markings or symbo	bls	: TESTING	
1				

ING.	Use of markings or symbols:	SING	N/A	
0	Information of user instructions, maintenance and/or servicing instructions	Change Change	N/A	
EE.3	Inadvertent reactivation test:	TESTING	N/A	
EE.4	Disconnection of power to hazardous moving parts:	A MARY	N/A	s.
O Home	Use of markings or symbols	A HUN	N/A	
EE.5	Protection against hazardous moving parts		N/A	5
116	Test with test finger (Figure 2A)		N/A	
TED.	Test with wedge probe (Figure EE1 and EE2):	- HUNAL .	N/A	1

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1.5.1	TABLE: List of critic	al components	-mG	- NG	P
Object/part No	o. Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
PCB	Fai Wong Electronic Pcb Co.	FW-4	V-0, 130°C, min. 1.0mm	EN 60950-1	UL E171766 and tested with appliance
Plastic enclosu	re LG Chemical Ltd.	AF312C	V-0, 70°C, min. thickness: 2.5mm	EN 60950-1	UL E67171 and tested with appliance

1.5.1	TABLE: Opto Electronic Devices		N/A
Manufacturer		- 100	
Туре	······································		
Separately te	ested:		
Bridging insu	lation		
External cree	page distance:		
	0,*** ~		
Internal creep	page distance:		
Distance thro	ugh insulation		
Tested under	the following conditions:		
Input		INCIDE .	
Output	and the supervised of the supe		
supplementa	ry information		
	JAKTES!	USK TEST	

1.6.2	TABLE	ABLE: Electrical data (in normal conditions)				Р	
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/statu	S
o 5	1.94	2A	9.7			Max normal loa	ld
Supplementa	ary informa	ation: N/A	U.S.	HUAK TE	100	NUNX TEL	

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IEC 60950-1 Requirement + Test

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Voltage (r	rated)					
(V)		Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)	
-x TESTIN	9	Contract restricts	- CTESTING	Contraction of the second	of TESTING	
supplementary	y informatio	on:				

2.1.1.5 c) 2)	TABLE: stored	energy	and the second s	N/A
Capacitar	nce C (µF)	Voltage U (V)	Energy E (J)	
Q.				anic:
				0.
supplement	ary information:			
			000	

2.2	TABLE: eval	uation of volta	age limiting	components in SELV circuits				
Component (measured between)		max. voltage (V) (normal operation)		Voltage Limiting Compone				
			V peak	V d.c.				
. <u></u>				0				
Fault test performed on voltage limiting components		Voltage measured (V) in SELV circuits (V peak or V d.c.)						
	UAK TES	HUAKTES	- HU	N TES !!	AUN HUA	A TEST		
supplement	ary information	:						
		0.0				161		

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···· (0) (2017)

55 MAG	N/A
Stree Mark	N/A
estruc A Park	artestore
(C) PUL	25
VA	4
Meas.	Limit
HULLAN	
	HUI HUI
-1 -1	
	Meas.

2.10.2 Table: working voltage measurement					
Location		RMS voltage (V)	Peak voltage (V)	Comments	
supplement	ary information:				

2.10.3 and	2.10.3 and TABLE: Clearance and creepage distance measurements						
2.10.4	2.10.4						
	cl) and creepage	U peak	U r.m.s.	Required cl	cl	Required cr	cr
) at/of/between:	(V)	(V)	(mm)	(mm)	(mm)	(mm)
						~	

2.10.5	2.10.5 TABLE: Distance through insulation measurements					
Distance t	hrough insulation (DTI) at/of:	U peak (V)	U rms (V)	Test volt- age(V)	Required DTI (mm)	DTI (mm)
	-TRIG - HUNKTES	Omo		HUAKTES	This	
HUAK	0	PLAK		I.	THURK IL	
Ŵ	STAG	<i></i>		CING		
Suppleme	entary information:	I	Un .	att		100

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4.3.8	TABLE:	Batteries							N/A
The tests o data is not		applicable	only when ap	propriate b	attery	- 40,00	ESTING	- WAX TES	MG:
Is it possibl	e to install	the battery	in a reverse	polarity pos	sition?	0		(U)	N/A
	Non-re	echargeable	e batteries		F	Rechargeal	ole batterie	es	•
WAX TE	Discharging		Un- intentional	Cha	Charging		Discharging		rsed ging
0	Meas. current	Manuf. Specs.	charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	AK TESTING		e.	~		~		D HUAK	6 m
Max. current during fault condition			-1885					5	61G
Test results	S:	Ŵ	100	HUAKIN		Ψ.	100	MAK TO	Verdict
- Chemical	leaks	STAN	Ŵ			STING	Y		
- Explosion	of the bat	tery			in and	K. Contraction of the second s			- HUI

- Emission of flame or expulsion of molten metal

- Electric strength tests of equipment after completion of tests

Supplementary information:

4.3.8	TABLE: Batterie	S	NS TESTING	NK TESTRA	NAM TEST	N/A
Battery ca	ategory	: (Li	thium, NiMh, NiCa	d, Lithium Ion)	0	
Manufact	urer	:				
Type / mo	odel	:				
Voltage	<u> (1977)</u>	i				
Capacity.		: m/	٨h			
Tested ar	nd Certified by (incl. F	Ref. No.):				
Circuit pro	otection diagram:					

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2511	ILO U	00001	150
Clause	Requirement + Test	Result - Remark	Verdict
	· · · · · ·		
MARKING	SS AND INSTRUCTIONS (1.7.13)		

Location of replaceable battery			
Language(s)	HURK	in mint	PUPY .
Close to the battery			<i></i>
In the servicing instructions:	36	INK TESTING	- Olympic - Olym
In the operating instructions	LTESIN	0	MAR TEST

4.5	TABLE: Thermal rec	quirements									P
STIL	Supply voltage (V)		:					5	SVDC	WAR "	
0	Ambient T _{min} (°C)							23.9	25.0)	
	Ambient T _{max} (°C)		:					24.0	25.0)	
Maximum part/at	n measured temperature	T of						T (°C	;)		Allowe d T _{max} (°C)
РСВ								32.9	34.0)	130
Enclosure	e ma			STAN			-	28.4	29.5	50	70
Internal w	vire		HUAN				Ŵ	31.4	32.5	5	80
Suppleme	entary information:				I		. TE	STANG		8	
Temperat	ture T of winding:	t ₁ (°C)	R ₁	(Ω)	t ₂ (°C)	R	₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulatio n class
0) and the second	9					0	91	0	
Suppleme	entary information:								6		

4.5.5		TABLE: Ball pressure test of thermoplastic parts			N/A
		Allowed impression diameter (mm)	CINC		
Part			Test temperature (°C)	Impression (mm	
9		-11 ⁶	- Ann	8	
Supple	men	tary information:	AL TENT	1	a)

4.7	CO HUD	TABLE:	Resistanc	e to fire				2	Р
	Part			Type of mate	erial	Thickness (mm)	Flammability class	Ev	idence
PCB		STAR	FW-4	STAG	STING	1.0	V-0	ULI	E171766
Suppl	ementa	ry inform	nation:	HURK	HUAK	HUDK I	an 110	P34- 1.	

5.1 TABLE: touch current measurement

N/A

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Verdict

	(Ma)	(Ma)		ditions
HURS TEL	Jak Ter	HUAKTE	in the factor and	THE HURST THE
upplementary information:		•		

and the second sec				and the second s	
5.2	TABLE: Electric strength	n tests, impulse tests and	d voltage surge t	ests	N/A
Test volta	age applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Suppleme	entary information:				

5.3	TABLE: Fault co	ndition tes	sts				Р	
	Ambient temperat	ure (°C)			: 2	25°C if not mentioned		
O HUNK IL	Power source for output rating				1	See page 1		
Componen No.	t Fault	Supply voltage (V)	Test time	Fuse #	Fuse currer (A)	rent		
U1	S-C	5VDC	10mins			The appliance can't work, no harzard, no broken		
р U3	S-C	5VDC	10mins			The appliance can't work, no harzard, no broken		
C9A	S-C	5VDC	10mins	Uple-		The appliance can't work, no harzard, no broken		
C23	S-C	5VDC	10mins	mc-		The appliance can't work, no harzard, no broken		

C.2	T/	ABLE: transforme	rs		mic OHUM		300	N/A
Loc.		Tested insulation	Working voltage peak / V	Working voltage rms / V	Required electric strength	Required clearance / mm	Required creepage distance / mm	Required distance thr. insul.
		£5 ¹⁰¹	(2.10.2)	(2.10.2)	(5.2)	(2.10.3)	(2.10.4)	(2.10.5)
	D HOLE	0,4		(C) HOME		(C) HOWE	(D) ¹⁶	

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Clause	Requirement + Test	C HURE	Result - Rema	rk	Verdict
Loc.	Tested insulation	Test voltage V	/ Measured / clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
	STING		STING		
16	INFO MUNICIPALITY	TESTING	THE PRIME IS	-15	10
HUBA	9	HUDA	99 / J	HUAN	
supplementa	ary information:			NY (11)	
* 2 or 3 laye	rs / 0.4mm / Annex U				

C.2	TABLE: transformers	1587	0	N/A
Transforme	r			•

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IEC60950_1E - ATTACHMENT

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Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Information technology equipment - Safety -

Part 1: General requirements

 Differences according to......
 EN 60950-1:2006/A11:2009/A1:2010/A12:2011

 Attachment Form No......
 EU_GD_IEC60950_1F

 Attachment Originator
 SGS Fimko Ltd

 Master Attachment
 Date 2014-02

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EN 60950-1:2006/A11:2009/A1:2010/A12:2011- CENELEC COMMON MODIFICATIONS

Clause	Requirement + Test Result - Remark	Verdict	
100 Mallo	Clauses, subclauses, notes, tables and figures which are additional to those in IEC60950-1 and it's amendmets are prefixed "Z"		
Contents	Add the following annexes:		
	Annex ZA (normative) Normative references to international publications with their corresponding European publications	an G	
(A2:2013)	Annex ZB (normative)Special national conditionsAnnex ZD (informative)IEC and CENELEC code designations for flexible cords	ane	
General	Delete all the "country" notes in the reference document (IEC 60950-1:2005)	pik	
	according to the following list: 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		
	2.2.3 Note 2.2.4 Note 2.3.2 Note 2.3.2.1 Note 2 2.3.4 Note 2 2.6.3.3 Note 2 & 3 2.7.1 2.7.1 Note 2.10.3.2 Note 2 2.10.5.13 Note 3 2.10.5.13	AUR TESTING	
	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		
	4.7.3.1Note 2 5.1.7.1 Note 3 & 4 5.3.7 Note 1	THE	
O HUN	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 G.2.1 Note 2 Annex H Note 2 1 1 1	5°	
General (A1:2010)	Delete all the "country" notes in the reference document (IEC 60950- 1:2005/A1:2010) according to the following list:	as restrict	
0	1.5.7.1 Note 6.1.2.1 Note 2 6.2.2.1 Note 2 EE.3 Note		
General (A2:2013)	Delete all the "country" notes in the reference document (IEC 60950-1:2005/A2:2013) according to the following list:2.7.1Note *2.10.3.1Note 2	A TESTING	
	6.2.2. Note * Note of secretary: Text of Common Modification remains unchanged.	Sec. 1	

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Clause	Requirement + Test	Result - Remark	Verdict
1.1.1 (A1:2010)	Replace the text of NOTE 3 by the following. NOTE 3The requirements of EN 60065 may also be used to m equipment. See IEC Guide 112, Guide on the safety of multime 60065 applies.	eet safety requirements for multimedia edia equipment. For television sets EN	
1.3.Z1	Add the following subclause:	INK TES	_o N/A
	1.3.Z1 Exposure to excessive sound pressure	O The second second	
	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.	- O ^{wiss}	
	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 -		TING
	Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.	O MAXITESTING	a
A12:2011)	In EN 60950-1:2006/A12:2011	- INDAK DE	
	Delete the addition of 1.3.Z1 / EN 60950-1:2006	D'	ESTING (
	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	O survey O survey	
1.5.1	Add the following NOTE:		
(Added info*)	NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC. New Directive 2011/65/11 *	a www.rising	K TESTING
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.	Muarinesing Sunarinesing	N/A
1.7.2.1	In EN 60950-1:2006/A12:2011	and and a	N/A
A12.2011)	Delete NOTE Z1 and the addition for Portable	WAX TEST	
	Sound System. Add the following clause and annex to the existing standard and amendments.	and and a series of the series	ESTING (
	Zx Protection against excessive sound pres	sure from personal music	N/A

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	IEC 60950-1, GROUP DIFFERENCES (CENELEC	common modifications EN)	
Clause	Requirement + Test	Result - Remark	Verdict
261000	Zx.1 General	- HUAN TREAM	N/A
	This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players.	MUNTESTRA	06
	A personal music player is a portable equipment for personal use, that: – is designed to allow the user to listen to recorded or broadcast sound or video; and – primarily uses headphones or earphones that can be worn in or on or around the ears; and – allows the user to walk around while in use. NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.		anae
	A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause.	B MARTINSTRA	an A
	The requirements in this sub-clause are valid for music or video mode only.	or restric	
	 The requirements do not apply: while the personal music player is connected to an external amplifier; or while the headphones or earphones are not 	O nue restrict O nue	KIESTING (
	used. NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player.		K TESTING
	 The requirements do not apply to: – hearing aid equipment and professional equipment; 	0 **** 0 *	
	NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.	O HUME O HUMETES	lar.
eresné Sne	 analogue personal music players (personal music players without any kind of digital processing of the sound signal) that are brough to the market before the end of 2015. NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies. 		N/A
	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.	O **** O *	2 200

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Clause	Requirement + Test	Result - Remark	Verdict
с О ¹¹¹	 Zx.2 Equipment requirements No safety provision is required for equipment that complies with the following: equipment provided as a package (personal music player with its listening device), where the acoustic output LAeq,T is ≤ 85 dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and 	O MARTING O	N/A
	 a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level LAeq,T is meant. See also Zx.5 and Annex Zx. 		лч ^{с.} О
e 0 ^{n/}	 All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and 	O WARTESTRE MUNICESTRE MUNICESTRE	576

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IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)				
Clause	Requirement + Test	Result - Remark	Verdict	
	c) provide a means to actively inform the user of	- HALL	N/A	
	the increased sound pressure when the	0		
	equipment is operated with an acoustic output			
	exceeding those mentioned above. Any means	STING		
	used shall be acknowledged by the user before	NIAKIL	O.G.	
	activating a mode of operation which allows for ar		KTES	
	acoustic output exceeding those mentioned			
	above. The acknowledgement does not need to	Photo:		
	be repeated more than once every 20 h of		- 6	
	cumulative listening time; and			
	NOTE 2 Examples of means include visual or audible signals Action from the user is always required.		HUAN	
	NOTE 3 The 20 h listening time is the accumulative listening			
	time, independent how often and how long the personal musi-	c		
	player has been switched off.			
	d) have a warning as specified in Zx.3; and			
	e) not exceed the following:		TING	
	1) equipment provided as a package (player			
	with Its listening device), the acoustic output			
	shall be \leq 100 dBA measured while playing the	2		
	fixed "programme simulation noise" described	- China -		
	in EN 50332-1; and	IN TES	G	
			TEST	
	2) a personal music player provided with an	HUI	12	
	analogue electrical output socket for a listening			
	device, the electrical output shall be $\leq 150 \text{ mV}$	TESTIMU		
	measured as described in EN 50332-2, while	- HUAR .		
	playing the fixed "programme simulation noise"	" 	STRUS U	
	described in EN 50332-1.	UNK TEST	MAX	
	For music where the overage cound pressure	CO HO		
	For music where the average sound pressure			
	(long term $L_{Aeq,T}$) measured over the duration of			
	the song is lower than the average produced by			
	the programme simulation noise, the warning	-185	-mag	
	does not need to be given as long as the average	•	N JES	
	sound pressure of the song is below the basic	ALC: NO.	Carlo III	
	limit of 85 dBA. In this case T becomes the			
	duration of the song.	300		
	NOTE 4 Classical music typically has an average sound	W TEST		
	pressure (long term LAeq,T) which is much lower than the	ALL HUDON	TESTING	
	average programme simulation noise. Therefore, if the player	and the second	Sec.	
	is capable to analyse the song and compare it with the			
	programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is	-		
	below the basic limit of 85 dBA.	MAXIE		
	For example, if the player is set with the programme	() m	and a	
	simulation noise to 85 dBA, but the average music level of the		ANK CONTRACTOR	
	song is only 65 dBA, there is no need to give a warning or asl		HUN	
	an acknowledgement as long as the average sound level of		2	
	the song is not above the basic limit of 85 dBA.			

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Clause Requirement + Test

Result - Remark

Verdict

Clause	Requirement + Test	Result - Remark	Verdict
	 Zx.3 Warning The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: the symbol of Figure 1 with a minimum height of 5 mm; and the following wording, or similar: 	O HUNCTESTER	N/A
	"To prevent possible hearing damage, do not listen at high volume levels for long periods."		
		- O'	Dise.
	~ D		ann ^{aG}
	Figure 1 – Warning label (IEC 60417-6044)	WAR TESTING	
	Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.	o numerosmo	
STING	Zx.4 Requirements for listening devices (headp	hones and earphones)	N/A
	Zx.4.1 Wired listening devices with analogue inputWith 94 dBA sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV.	O numero O n	N/A
	This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control).	O wax resure	PROSTEST
	NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.	O HUN	ESTI

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Result - Remark Clause Requirement + Test Verdict IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN) Clause Requirement + Test **Result - Remark** Verdict N/A Zx.4.2 Wired listening devices with digital input With any playing device playing the fixed 'programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq, T of the listening device shall be ≤ 100 dBA. This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.). NOTE An example of a wired listening device with digital input is a USB headphone. N/A Zx.4.3 Wireless listening devices In wireless mode: with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the abovementioned programme simulation noise, the acoustic output LAeq,T of the listening device shall be ≤ 100 dBA. NOTE An example of a wireless listening device is a Bluetooth headphone. N/A **Zx.5 Measurement methods** Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s. NOTE Test method for wireless equipment provided without listening device should be defined.

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Clause	Requirement + Test	HUAN IN ALLAN	Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	Verdict
2.7.1	Replace the subclause as follows: Basic requirements	O read of the	N/A
	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):	C MARTISTIC	(P)
	 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; 		
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short- circuit and earth fault protection may be provided by protective devices in the building installation;		IMIC
е О ^{иі}	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in	A MAXING A MAXING	N/A
	the installation instructions. If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	A water the same	estine (
2.7.2	This subclause has been declared 'void'.	UNK TEST	N TEST
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	0" 0"	N/A

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Clause

Clause

3.2.5.1

3.2.5.1

3.3.4

(A2:2013)

4.3.13.6

(A1:2010)

IEC60950 1E - ATTACHMENT **Result - Remark** Verdict Requirement + Test IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN) **Result - Remark** Requirement + Test Verdict N/A Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F": "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2". In Table 3B, replace the first four lines by the following: Up to and including 6 0,75 a) | Over 6 up to and including 10 (0,75) b) 1,0 | Over 10 up to and including 16|(1,0)c|1.5 In the conditions applicable to Table 3B delete the words "in some countries" in condition a). In NOTE 1, applicable to Table 3B, delete the second sentence. NOTE Z1 The harmonised code designations corresponding N/A to the IEC cord types are given in Annex ZD N/A In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following: Over 10 up to and including 16 | 1,5 to 2,5 | 1,5 to 4 Delete the fifth line: conductor sizes for 13 to 16 A N/A Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation). N/A Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC. Annex H The unit does not emit X-ray N/A Replace the last paragraph of this annex by: radiation. At any point 10 cm from the surface of the **OPERATOR ACCESS AREA, the dose rate shall** not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level. Replace the notes as follows: NOTE These values appear in Directive

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Bibliography Additional EN standards.

96/29/Euratom. Delete NOTE 2.

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	IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)				
Clause	Requirement + Test	Result - Remark	Verdict		
ZA	NORMATIVE REFERENCES TO IN THEIR CORRESPONDING EUROP	TERNATIONAL PUBLICATIONS WITH EAN PUBLICATIONS	_		

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test	Result - Remark	Verdict	
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.	- O ^{wax}	N/A	
1.2.13.14 (A11:2009)	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.		N/A	
1.5.7.1 (A11:2009)	In Finland, Norway and Sweden , resistors 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 resistor is used, the resistor must withstand the resistor test in 1.5.7.2.	NAKTESTING	N/A	
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	Class III equipment	N/A	
1.5.9.4	In Finland , Norway and Sweden , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.	Should be considered when market into these countries	N/A	

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ZB ANNEX (normative)				
ESTING	SPECIAL NATIONAL CONDITION	ONS (EN)	resting	
Clause	Requirement + Test	Result - Remark	Verdic	
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.	Mulacitations	N/A	
	The marking text in the applicable countries shall be as follows: In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	~	OHUM	
	In Norway : "Apparatet må tilkoples jordet stikkontakt"		TRUG	
	In Sweden : "Apparaten skall anslutas till jordat uttag"	- 10		
1.7.2.1 (A11:2009)	In Norway and Sweden , the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system.	nuarrestas	D HUM TESTIC	
	 It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer. The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in: 	O to the second	O NUR TESTING	
	"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard.	Muartesting	Numerestres	
	Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."	C rune restor	HURK CESTIN	
	stars	STATE STATE	GING	

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	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test	CO HURA	Result - Remark	(C) ^m	Verdic
ас О ^{на}	NOTE In Norway, due to reg installations of cable distribur Sweden, a galvanic isolator electrical insulation below 5 shall withstand a dielectric st r.m.s., 50 Hz or 60 Hz, for 1	tion systems, and in shall provide MHz. The insulation rength of 1,5 kV	O MUNTESTING	A max rest	N/A
	Translation to Norwegian (th also be accepted in Norway)	:			
	"Utstyr som er koplet til besk nettplugg og/eller via annet ju utstyr – og er tilkoplet et kab forårsake brannfare. For å un ved tilkopling av utstyret til ka installeres en galvanisk isola og kabel- TV nettet."	ordtilkoplet el-TV nett, kan nngå dette skal det abel-TV nettet	~		anne.
	Translation to Swedish: "Utrustning som är kopplad t	ill skyddsiord via	-1610-		
	jordat vägguttag och/eller via utrustning och samtidigt är k nät kan i vissa fall medfőra ri brand. Főr att undvika detta	a annan opplad till kabel-TV sk főr skall vid anslutning	O MUNITESIN		¢.
	av utrustningen till kabel-TV galvanisk isolator finnas mel kabel-TV nätet."		NAME OF TAXABLE		testing (
1.7.2.1 (A2:2013)	In Denmark , CLASS I PLUG EQUIPMENT TYPE A intend other equipment or a networ on connection to protective e suppressors are connected b terminals and accessible par stating that the equipment m an earthed mains socket-out	led for connection to k shall, if safety relies earth or if surge between the network ts, have a marking ust be connected to	C un rene	0,"	N/A
	The marking text in Denmar In Denmark : "Apparatets still en stikkontakt med jord, som stikproppens jord."	kprop skal tilsluttes	C HUNTESTIN		<u>1</u> 61
1.7.5	In Denmark , socket-outlets f other equipment shall be in a Heavy Current Regulations, Standard Sheet DK 1-3a, Dk when used on Class I equipr STATIONARY EQUIPMENT shall be in accordance with S 1b or DK 1-5a.	accordance with the Section 107-2-D1, (1-5a or DK 1-7a, nent. For the socket-outlet	C rule rest	sé O ^{nind}	N/A
1.7.5 (A11:2009)	For CLASS II EQUIPMENT be in accordance with Stand		C INAK TESTI		K TEST

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ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test	Result - Remark	Verdic	
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	C warrising	N/A	
	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		. 1	
	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.		ING	
	Justification the Heavy Current Regulations, 6c	INCRESTING.	2.6	
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	O HUN TO	N/A	
2.3.2	In Finland , Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	A HUM TESTING	N/A	
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	a martine a ma	N/A	
2.6.3.3	In the United Kingdom , the current rating of the circuit shall be taken as 13 A, not 16 A.		N/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		N/A	
	parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.	C HUAN		
2.10.5.13	In Finland , Norway and Sweden , there are additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	a nun restare	N/A	
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:		N/A	
	SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A	autoristic and	UA TESTIN	

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ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)			
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e Ou	SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:	O max restate	N/A
	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, 16/	Ą	7000
9	SEV 5934-2.1998: Plug Type 23, L+N+PE 250 \ 16 A	/,	
3.2.1.1	In Denmark , supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1.	O HUNCTES . O HU	N/A
	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.		HURK CSTRIG
	If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D or EN 60309-2.	1	O NUCTOSTIC

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ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test	Result - Remark	Verdict	
3.2.1.1 (A2:2013)	In Denmark , supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1. CLASS I EQUIPMENT provided with socket-	C HUAKTESTING	N/A	
	outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to thewiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a orDK 2-5a. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a			
	plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2. Justification the Heavy Current Regulations, 6c	-1000	armic	
3.2.1.1	In Spain , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.	O HUAN T	N/A	
	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.	Russing Onesting	UNK ESTING	
	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.	O HOR TESTING	HUNTESTING	
26	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	ALANTESTING	ESTIG	
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	Provertes mes	N/A	
	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.	O rourres.	UNK	
	NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	O was resured	HORTESTING	

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k Verdict

risting	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)					
Clause	Requirement + Test	C HURA	Result - Remark	(Charles and Charles and Charl	Verdict	
3.2.1.1	In Ireland , apparatus which cable or cord and is designe a mains socket conforming t of that flexible cable or cord fitted with a 13 A plug in acc Statutory Instrument 525:199 Standards Authority of Irelar Plugs and Conversion Adap Use) Regulations 1997.	d to be connected to o I.S. 411 by means and plug, shall be ordance with 97 - National nd (section 28) (13 A	a maximum	tuar rest	N/A	
3.2.4	In Switzerland , for requirem this annex.	ents see 3.2.1.1 of	~	<i>©</i>	N/A	
3.2.5.1	In the United Kingdom , a p conductor of 1,25 mm2 is all with a rated current over 10 including 13 A.	owed for equipment			N/A	
3.3.4	In the United Kingdom , the sizes of flexible cords to be a for equipment with a RATED 10 A up to and including 13 a 1,25 mm ² to 1,5 mm ² nomi area.	accepted by terminals O CURRENT of over A is:	Museresnes	O meetost	N/A	
4.3.6	In the United Kingdom , the performed using a socket ou BS 1363 part 1:1995, includi 1:1997 and Amendment 2:20 of DIRECT PLUG-IN EQUIP assessed to BS 1363: Part 1 12.9, 12.11, 12.12, 12.13, 12 except that the test of 12.17 less than 125 °C. Where the replaced by an Insulated Sh (ISOD), the requirements of also apply.	Attlet complying with ing Amendment 2003 and the plug part MENT shall be 1, 12.1, 12.2, 12.3, 2.16 and 12.17, is performed at not metal earth pin is utter Opening Device	O MARTINE	16 0 19 19 0 19	N/A	
4.3.6	In Ireland , DIRECT PLUG-II known as plug similar device comply with Statutory Instrue National Standards Authority 28) (Electrical plugs, plug sin sockets for domestic use) Re	es. Such devices shall ment 526:1997 - / of Ireland (Section milar devices and	nus resna	0 ¹⁰¹	N/A	

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ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)					
Clause	Requirement + Test	HUAN	Result - Remark	(C) HI	Verdic
5.1.7.1	In Finland , Norway and Swed CURRENT measurement resu mA r.m.s. are permitted only fo equipment: • STATIONARY PLUGGABLE	Its exceeding 3,5 r the following	Maxinsing	M HURTEST	N/A
	TYPE A that is intended to be used in a ACCESS LOCATION where ec bonding has been applied, for telecommunication centre; and has provision for a perman PROTECTIVE EARTHING CO is provided with instruction installation of that conductor by PERSON;	a RESTRICTED quipotential example, in a nently connected NDUCTOR; and ns for the	~		e.
	 STATIONARY PLUGGABLE TYPE B; STATIONARY PERMANENT EQUIPMENT. 		NUNCTISTICS		e.
6.1.2.1	In Finland, Norway and Swed	en add the		O THEN	N/A
(A1:2010)	following text between the first paragraph of the compliance c If this insulation is solid, includi forming part of a component, it consist of either	ause: ng insulation	nux restrict		testino (
	 two layers of thin sheet m which shall pass the electric st or one layer having a distance 	rength test below,	THE TESTING		K TESTING
	insulation of at least 0,4 mm, w electric strength test below.		0		
	Alternatively for components, through insulation requirement consisting of an insulating com filling the casing, so that CLEA CREEPAGE DISTANCES do r	s for the insulation pound completely RANCES and	 Maximum 		le.
	component passes the electric accordance with the compliance and in addition		B HUARTES		resting (
	 passes the tests and inspective constraints 2.10.11 with an electric strengt multiplied by 1,6 (the electric strengt) 	h test of 1,5 kV	O m		
	 2.10.10 shall be performed using - is subject to ROUTINE TE strength during manufacturing, 	ng 1,5 kV), and STING for electric	a nuar restruc		K TESTING

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Clause Requirement + Test

Result - Remark

Verdict

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)					
Clause	Requirement + Test	HUAN	Result - Remark	STO HU	Verdict
с () ¹¹¹	It is permitted to bridge this optocoupler complying with It is permitted to bridge this capacitor complying with EN subclass Y2.	2.10.5.4 b). insulation with a	a martenes	A number	N/A
	A capacitor classified Y3 act EN 60384-14:2005, may brid under the following condition - the insulation requirem having a capacitor classified EN 60384-14, which in addit is tested with an impulse test	dge this insulation ns: ents are satisfied by I Y3 as defined by tion to the Y3 testing,	~		- Insc
	 EN 60950-1:2006, 6.2.2.1; the additional testing shall the test specimens as de EN 60384-14: the impulse test of 2,5 l before the endurance test the sequence of tests as des 14. 	scribed in kV is to be performed in EN 60384-14, in	Muserestas		ø
6.1.2.2	In Finland, Norway and Sw are applicable for PERMAN EQUIPMENT, PLUGGABLE B and equipment intended to RESTRICTED ACCESS LO equipotential bonding has be telecommunication centre, a provision for a permanently PROTECTIVE EARTHING (provided with instructions fo that conductor by a SERVIC	ENTLY CONNECTED E EQUIPMENT TYPE o be used in a CATION where een applied, e.g. in a and which has connected CONDUCTOR and is r the installation of)		N/A
7.2	In Finland, Norway and Sw requirements see 6.1.2.1 an annex. The term TELECOMMUNIC 6.1.2 being replaced by the DISTRIBUTION SYSTEM.	d 6.1.2.2 of this ATION NETWORK in	O MARTISTUG	o numeran	N/A
7.3 (A11:2009)	In Norway and Sweden, for 1.2.13.14 and 1.7.2.1 of this		O MUN	0	N/A

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 IEC60950_1E - ATTACHMENT

 Clause
 Requirement + Test
 Result - Remark
 Verdict

Annex ZD (informative)

Type of flexible cord	Code des	signations
	IEC	CENELEC
PVC insulated cords		WIAN TEN
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F
-X Ter		H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60277 IEC 53	H05VV-F
ALTES IN MARTIE		H05VVH2-F
Rubber insulated cords	Letters.	
Braided cord	60245 IEC 51 🤍	H03RT-F
Ordinary tough rubber sheathed flexible cord	60245 IEC 53	H05RR-F
Ordinary polychloroprene sheathed flexible cord	60245 IEC 57	H05RN-F
Heavy polychloroprene sheathed flexible cord	60245 IEC 66	H07RN-F
Cords having high flexibility		
Rubber insulated and sheathed cord	60245 IEC 86	H03RR-H
Rubber insulated, crosslinked PVC sheathed cord	60245 IEC 87	H03RV4-H
Crosslinked PVC insulated and sheathed cord	60245 IEC 88	H03V4V4-H

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Attachment: Photos of the products



Photo 1: Overall view



3c 50 10500 30 80 20 60 20 40 30 50 10100 30 80 20 60 20 40 30 50 3

Photo 2: Overall view

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eo 40 30 50 10500 ao 80 10 60 20 40 30 50 10100 ao 80 10 60 20 40 30

Photo 3: Side view



Photo 4: Side view

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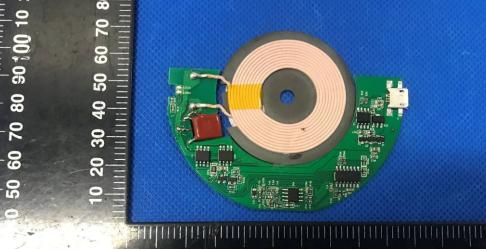


Photo 5: PCB view

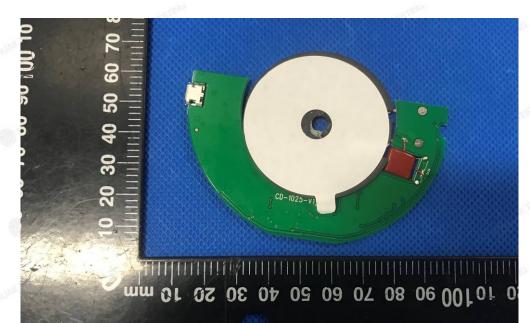


Photo 6: PCB view

End of report

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