

LVD TEST REPORT

CE-LVD TEST REPORT

Prepared for :

Product: LIGHT UP LOGO WIRELESS CHARGING PEN HOLDER Trade Name: N/A Model Name: CD-1057 Date of Test: May 24, 2019 to Jun. 27, 2019 Date of Report: Jun. 27, 2019 Report Number: HK1905241145-SR

Prepared By :

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TEST REPORT

IEC 60950-1

Information technology equipment – Safety – Part 1: General requirements

Report Number:	HK1905241145-SR		
Date of issue:	2019-06-27		
Total number of pages:	65		
Applicant's name:		1002	10. J
Address:			
Test specification:		~	
Standard:	EN 60950-1:2006+A11	:2009+A1:2010+A1	2:2011+A2:2013
Test procedure:	CE-LVD		
Non-standard test method:	N/A		
Test Report Form No	IEC60950_1F	-mile	
Test Report Form(s) Originator :	SGS Fimko Ltd		
Master TRF:	Dated 2014-02		
Converight @ 2014 IEC System of Co	nformity According to	Cohomoo for Elect	etechnical Equipment

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General disclaimer:

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

Test item description	: LIGHT UP LOGO WIRELESS CHARGING PEN HOLDER
Trade Mark	
Manufacturer	:: Same as applicant
Address	:: Same as applicant
Model/Type reference	:: CD-1057
Ratings	: Input: 5V ===, 3A
	USB outout 1: 5V,1A
	USB outout 2: 5V,1A
	Wireless outout: 5V,1A, 5W

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	ting procedure and testing location:			
\boxtimes	Testing Laboratory:	Shenzhen HUAK Testing Technology Co., Ltd.		
Tes	ting location/ address:	1F, B2 Building, Junfe Park, Heping Commur Shenzhen, China		
	Associated Testing Laboratory:	TESTING	NUAKILL	TESTING
Tes	ting location/ address:	un ^a .	-1 ¹⁰	NUM.
Tes	ted by (name + signature):	Mark Deng	Mark T	
Арр	proved by (name + signature):	Dendi Wei	Den	APPROVAL S
	Testing procedure: TMP/CTF Stage 1:	S HUAK TEST	- HURK TEST	THURK TEST
Гes	ting location/ address:			
Tes	ted by (name + signature):	~5 ¹	10-	~51*
App	proved by (name + signature):	LIAN .	0	HILDR.
	Testing procedure: WMT/CTF Stage 2:	IN TE	p).	
85 -	ting location/ address:	HUAK TESTAR	FUAK TESTING	C HOM TESTING C
	ted by (name + signature):			
. Cr	nessed by (name + signature):			
App	proved by (name + signature):	. TESTIN	V TESTIN	N TESTIN
	Testing procedure: SMT/CTF Stage 3 or 4:		- critité	
Tes	ting location/ address:	UN TESTING	AUAX IL	RUAK TESTING
Tes	ted by (name + signature):		SNG O	
Witı	nessed by (name + signature):	THE PULLET		
App	proved by (name + signature):	- MUAK TEST."	UNK TESTING	- WAXTEST
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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.(5 pages)

Summary of testing:

Tests performed (name of test and test clause):

- General
 Protection from hazards
 Wiring, connections and supply
- Physical requirements
 Abnormal operating and fault 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 EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013.

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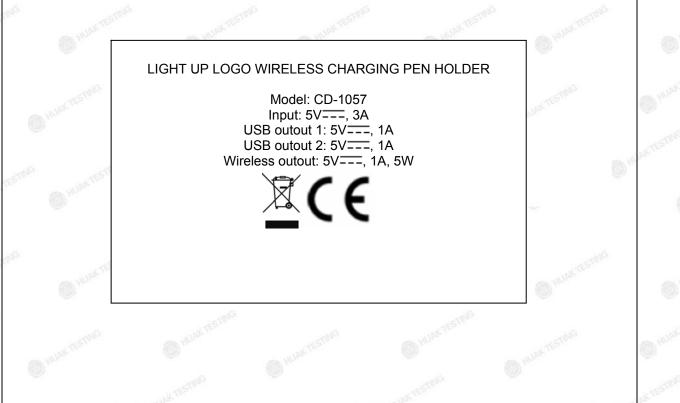
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Copy of marking plate: The artwork below may be only a draft.



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Test item particulars:	
Equipment mobility:	[] movable [] hand-held [x] 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 [] other: not directly connected to the mains
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)	
Altitude of test laboratory (m)	Below 2000m
Mass of equipment (kg)	Approx. 0.26 kg

Possible test case verdicts:	
- test case does not apply to the test object: N/A	
- 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 Comma / X 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 LIGHT UP LOGO 5W WIRELESS CHARGING PEN HOLDER intended to be indoor use, electronic components mounted on PCB, external enclosure is plastic material of min. V-1 class.

The product is supplied by the USB port which is considered as SELV circuits.

Maximum recommended ambient (Tmra): 25°C.

N C

OP

DI

Abbreviations used in the report:

- normal conditions
- functional insulation
- double insulation
- between parts of opposite polarity BOP
- single fault conditions

- basic insulation

S.F.C

BI

SI

RI

- supplementary insulation

- reinforced insulation

Indicate used abbreviations (if any)

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STING	TESTING OF	IEC 60950-1	STAG	TESTING OF
Clause	Requirement + Test	C HURT	Result - Remark	Verdict

1	GENERAL	- AG	P
	NAK TESN NAK TESN	NAK TES	
1.5	Components	0	Р
1.5.1	General	-STING	Р
HUAXTE	Comply with IEC 60950-1 or relevant component standard	(see appended tables 1.5.1)	Ρ
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
	JAKTESTING	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.	
	- Otra Otravitest.	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, no such device	N/A
1.5.5 ø	Interconnecting cables	Interconnecting cables does not carry voltage higher than SELV and no higher energy level than 240VA.	P
1.5.6	Capacitors bridging insulation	No such component used.	N/A
1.5.7	Resistors bridging insulation	No such component used.	N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	HUMTESTING	N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	A TESTING	N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	ANTESTING AURTOSTIN	N/A
1.5.8	Components in equipment for IT power systems	The EUT is not directly connected to the mains.	N/A
1.5.9	Surge suppressors	No such component used.	N/A
1.5.9.1	General	TISTING TIS	N/A
1.5.9.2	Protection of VDRs	Contar Contact	N/A
1.5.9.3	Bridging of functional insulation by a VDR		N/A

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ause	Requirement + Test	Result - Remark	Verdict
5.9.4	Bridging of basic insulation by a VDR		N/A
5.9.5	Bridging of supplementary, double or reinforced	STANG	N/A

1.6	Power interface		Р
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	Not such equipment.	N/A
1.6.4	Neutral conductor	The EUT is not directly connected to the mains.	N/A

1.7	Marking and instructions		Р
1.7.1	Power rating and identification markings	The required marking is located on the outside surface of the equipment.	P
1.7.1.1	Power rating marking	See below	Р
HUAK TES	Multiple mains supply connections	The EUT is not directly connected to the mains.	N/A
÷.	Rated voltage(s) or voltage range(s) (V)	See copy of marking plate.	Р
	Symbol for nature of supply, for d.c. only	d.c.	Р
STIN	Rated frequency or rated frequency range (Hz):	of testing a way test	N/A
0.	Rated current (mA or A)	See copy of marking plate.	Р
1.7.1.2	Identification markings	See below	Р
16	Manufacturer's name or trade-mark or identification mark	See copy of marking plate.	P
0	Model identification or type reference	See page 2	Р
	Symbol for Class II equipment only	Class III equipment.	N/A
O HUAK TES	Other markings and symbols	Additional symbols or marking do not give rise to misunderstanding.	Ρ
1.7.1.3	Use of graphical symbols	Graphical symbols placed on the equipment, whether required by this standard or not, shall be in accordance with IEC 60417 or ISO 3864-2 or ISO 7000, or specific graphical symbols are designed by the manufacturer.	P
1.7.2	Safety instructions and marking	See below.	Р

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	IEC 60950-1	-STING TESTIN	
Clause	Requirement + Test	Result - Remark	Verdict
1.7.2.1	General	The sufficient information of the equipment is provided in the user manual.	P
1.7.2.2	Disconnect devices	Not directly connected to the mains	N/A
1.7.2.3	Overcurrent protective device	Class III equipment, no such device.	N/A
1.7.2.4	IT power distribution systems	TN power distribution system.	N/A
1.7.2.5	Operator access with a tool	TESTING	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
1.7.4	Supply voltage adjustment	Full range voltage design, no Voltage adjustment.	N/A
6)	Methods and means of adjustment; reference to installation instructions	O HUM	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)	HUNCTEST	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	NY TESTING	N/A
1.7.8.1	Identification, location and marking	O HUM	N/A
1.7.8.2	Colours	O Hore	N/A
1.7.8.3	Symbols according to IEC 60417	No such part.	N/A
1.7.8.4	Markings using figures	No such part.	N/A
1.7.9	Isolation of multiple power sources	Single connection.	N/A
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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 not fade.	P
1.7.12	Removable parts	The marking does not be placed on the removable part.	N/A
1.7.13	Replaceable batteries:		N/A
	Language(s)		
1.7.14	Equipment for restricted access locations:	No for use in the restricted access location.	N/A

2	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy hazar	ds	Р
2.1.1	Protection in operator access areas	See below.	Р
2.1.1.1	Access to energized parts	Class III equipment, supplied by SELV and there is no hazardous voltage generated inside the EUT.	N/A
	Test by inspection		N/A
	Test with test finger (Figure 2A)		N/A
NG .	Test with test pin (Figure 2B)	TISTING	N/A
0	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 wiring in operator accessible area.	N/A
STING	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)	CAR TES	
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.	P

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Clause	Requirement + Test	Result - Remark	Verdict
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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	No such capacitor.	N/A
	Measured voltage (V); time-constant (s)	INK TESTING	
2.1.1.8	Energy hazards – d.c. mains supply	Not connected to d.c. mains supply	N/A
~	a) Capacitor connected to the d.c. mains supply:	Not connected to d.c. mains supply	N/A
testine O Hul	b) Internal battery connected to the d.c. mains supply :	This product is not intended to be connected to d.c. mains supply.	N/A
2.1.1.9	Audio amplifiers	No audio amplifiers.	N/A
2.1.2	Protection in service access areas	-1005	N/A
2.1.3	Protection in restricted access locations	It is not intended to be used in restricted 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.	Р
2.2.2	Voltages under normal conditions (V):	Class III equipment, supplied by SELV and there is no hazardous voltage generated inside the EUT.	Р
2.2.3	Voltages under fault conditions (V):	Class III equipment, supplied by SELV and there is no hazardous voltage generated inside the EUT.	P
2.2.4	Connection of SELV circuits to other circuits:	SELV circuits are only connected to other SELV circuits.	Р

2.3	TNV circuits	-STING	N/A
2.3.1	Limits	No TNV circuits within the equipment.	N/A
0	Type of TNV circuits	O HOR O HOR	
2.3.2	Separation from other circuits and from accessible parts		N/A
2.3.2.1	General requirements	TESTING TEST	N/A
2.3.2.2	Protection by basic insulation	A HUDE	N/A
2.3.2.3	Protection by earthing		N/A

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Requirement + Test **Result - Remark** Verdict

2.3.2.4	Protection by other constructions:			N/A
2.3.3	Separation from hazardous voltages	-cSTRVG	-5	N/A
0	Insulation employed:	THURK .	PRUPAL .	
2.3.4	Connection of TNV circuits to other circuits		9	N/A
	Insulation employed:	10X TESTING	and	
2.3.5	Test for operating voltages generated externally	0	- WAX TEST	N/A

2.4	Limited current circuits	UAK TED .	N/A
2.4.1	General requirements	TESTING ALTESTIN	N/A
2.4.2	Limit values	O HUMAN O HUM	N/A
	Frequency (Hz):		
	Measured current (mA):		
	Measured voltage (V)	ALANTESING ALANTES	
63	Measured circuit capacitance (nF or µF)	0, 0,	
2.4.3	Connection of limited current circuits to other circuits		N/A

2.5	Limited power sources		N/A
	a) Inherently limited output	LAKTE	N/A
ESTINO	b) Impedance limited output	K TESTING	N/A
0	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	0	N/A
NG	Use of integrated circuit (IC) current limiters	STANG	N/A
	d) Overcurrent protective device limited output	HUNK IL	N/A
0	Max. output voltage (V), max. output current (A), max. apparent power (VA) :	-SING	
	Current rating of overcurrent protective device (A) .:	HUAN STANG	

2.6	Provisions for earthing and bonding		N/A
2.6.1	Protective earthing	Class III equipment.	N/A
2.6.2	Functional earthing	- WARTES - HUNKTES	N/A
	Use of symbol for functional earthing	<u>0.</u>	
2.6.3	Protective earthing and protective bonding conductors	- Blow	N/A
2.6.3.1	General	WANTES IN WANTES	N/A
2.6.3.2	Size of protective earthing conductors	0. 0.	N/A

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ale ale	Rated current (A), cross-sectional area (mm ²), AWG	- North	
2.6.3.3	Size of protective bonding conductors	- WAR TEST	N/A
ø	Rated current (A), cross-sectional area (mm ²), AWG	-m ⁶	
MAXTE	Protective current rating (A), cross-sectional area (mm ²), AWG:	WWWTES WARTSTRE	_
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min)	JAK TESTING	N/A
2.6.3.5	Colour of insulation	WTESTING WANTEST	N/A
2.6.4	Terminals	Our On	N/A
2.6.4.1	General		N/A
2.6.4.2	Protective earthing and bonding terminals	240	N/A
6)	Rated current (A), type, nominal thread diameter (mm):	O HUNKTED O HUNKTED	
2.6.4.3	Separation of the protective earthing conductor		N/A

	from protective bonding conductors	0.0		
2.6.5	Integrity of protective earthing	Om and	AX TEST	N/A
2.6.5.1	Interconnection of equipment	General Contraction of the second sec		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	UNA TED	STA	N/A
2.6.5.3	Disconnection of protective earth	HUNKTED	HUAK	N/A
2.6.5.4	Parts that can be removed by an operator	0	9	N/A
2.6.5.5	Parts removed during servicing			N/A
2.6.5.6	Corrosion resistance	-57845	-551	s [©] N/A
2.6.5.7	Screws for protective bonding	ALL HUDY	The HUAR	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system	TESTING		N/A

2.7	Overcurrent and earth fault protection in primary	y circuits	N/A
2.7.1	Basic requirements	Class III equipment	N/A
ESTING	Instructions when protection relies on building installation	or autornesing	N/A
2.7.2	Faults not simulated in 5.3.7	0	
2.7.3	Short-circuit backup protection		N/A
2.7.4	Number and location of protective devices:	Alter	_{eso} N/A
2.7.5	Protection by several devices	- HUAK TED	N/A
2.7.6	Warning to service personnel:		N/A

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STING	TESTING OF	IEC 60950-1	H STAG	stine Other
Clause	Requirement + Test	C HUAN	Result - Remark	Verdict

2.8	Safety interlocks		o [©] N/A
2.8.1	General principles	No safety interlocks or similar devices within the equipment	N/A
2.8.2	Protection requirements	TESTING	N/A
2.8.3	Inadvertent reactivation	HUAN TESTING	N/A
2.8.4	Fail-safe operation	O HUM	N/A
	Protection against extreme hazard	a TESTINO	N/A
2.8.5	Moving parts	in and	N/A
2.8.6	Overriding	HUAK TEST	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):	340	N/A
2.8.7.2	Overload test	- WAX TEST	N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test		N/A
2.8.8	Mechanical actuators	······	N/A

2.9	Electrical insulation	TESTING	Р
2.9.1	Properties of insulating materials	Class III equipment, no critical insulation in the EUT.	N/A
2.9.2	Humidity conditioning	Class III equipment, no critical insulation in the EUT.	N/A
	Relative humidity (%), temperature (°C):		
2.9.3	Grade of insulation	Only the functional insulation inside the EUT.	P
2.9.4	Separation from hazardous voltages	Class III equipment, no critical insulation in the EUT.	N/A
	Method(s) used:	IN TEST	

2.10	Clearances, creepage distances and distances t	hrough insulation	Р
2.10.1	General	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	a O MUA
2.10.1.1	Frequency	Class III equipment.	
2.10.1.2	Pollution degrees	Pollution Degree 2.	Р
2.10.1.3	Reduced values for functional insulation	The functional insulation complied with clause 5.3.4.	N ^O P

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CSTING	IEC 60950-1	STAG TESTAN	• Ø "
Clause	Requirement + Test	Result - Remark	Verdic
2.10.1.4	Intervening unconnected conductive parts	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	61 ⁶
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	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	N/A
2.10.2.1	General	IN TESTING - WANTEST	
2.10.2.2	RMS working voltage	0	N/A
2.10.2.3	Peak working voltage		N/A
2.10.3	Clearances	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.3.1	General		
2.10.3.2	Mains transient voltages	Contraction of the second	N/A
	a) AC mains supply	Not directly connected to the a c mains	N/A
ESTING RUI	b) Earthed d.c. mains supplies	Not directly connected to the d c mains	N/A
	c) Unearthed d.c. mains supplies	Not directly connected to the d c mains	N/A
ave	d) Battery operation	STAG	s [©] N/A
2.10.3.3	Clearances in primary circuits	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	N/A
2.10.3.4	Clearances in secondary circuits	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	N/A
2.10.3.5	Clearances in circuits having starting pulses	No such circuit.	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

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See below.

Measurement of transient voltage levels



Report No.: HK1905241145-SR Page 17 of 65 IEC 60950-1 Clause Requirement + Test **Result - Remark** Verdict a) Transients from a mains supply N/A Class III equipment. Not directly connected to the mains. For an a.c. mains supply: The EUT is not directly N/A connected to a.c. mains N/A For a d.c. mains supply: The EUT is not directly connected to d.c. mains b) Transients from a telecommunication network : Not connected to N/A telecommunication networks. 2.10.4 Creepage distances Class III equipment, supplied N/A by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT. 2.10.4.1 General N/A 2 10 4 2 Material group and comparative tracking index N/A CTI tests: 2.10.4.3 Minimum creepage distances N/A 2.10.5 Solid insulation Class III equipment, supplied N/A by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT. 2.10.5.1 N/A General Distances through insulation 2.10.5.2 N/A 2.10.5.3 Insulating compound as solid insulation N/A 2.10.5.4 Semiconductor devices N/A 2.10.5.5. Cemented joints N/A 2.10.5.6 Thin sheet material - General N/A 2.10.5.7 Separable thin sheet material N/A Number of layers (pcs): 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 2.10.5.10 Thin sheet material – alternative test procedure N/A Electric strength test 2.10.5.11 Insulation in wound components N/A 2.10.5.12 Wire in wound components N/A N/A Working voltage a) Basic insulation not under stress N/A N/A b) Basic, supplementary, reinforced insulation:

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Clause Requirement + Test Result - Remark Verdict

	c) Compliance with Annex U		N/A
Q.	Two wires in contact inside wound component; angle between 45° and 90°	S HUNCTESTING	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
de la	Electric strength test	- HUNTE	
AND HUPK	Routine test	C HUNK	N/A
2.10.5.14	Additional insulation in wound components	Class III equipment, supplied by SELV and no critical insulation inside the EUT.	N/A
OW	HUNTES . O HUNTES	Only the functional insulation inside the EUT.	
	Working voltage		N/A
6	- Basic insulation not under stress	944	N/A
	- Supplementary, reinforced insulation	MARTESI	N/A
2.10.6	Construction of printed boards	Class III equipment, supplied by SELV and no critical insulation inside the EUT. Only the functional insulation inside the EUT.	N/A
2.10.6.1	Uncoated printed boards	- STANG	N/A
2.10.6.2	Coated printed boards	DAM THE	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	nuartestin nuartest	N/A
2.10.6.4	Insulation between conductors on different layers of a printed board		N/A
ß	Distance through insulation	TISTING TS	N/A
(B) ¹	Number of insulation layers (pcs)	HUAR . A HUAR	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	- MA - STAL	N/A
2.10.8.2	Thermal conditioning	HUNK TO BURK I	N/A
2.10.8.3	Electric strength test		N/A
2.10.8.4	Abrasion resistance test		N/A
2.10.9	Thermal cycling	No such construction	N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound	Pollution degree 2 is considered.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
2.10.11	Tests for semiconductor devices and cemented joints	No such construction	N/A
2.10.12	Enclosed and sealed parts	No hermetically sealed component.	N/A

3	WIRING, CONNECTIONS AND SUPPLY	ION TESTING	Р
3.1	General	O MA HANTESIN	Р
3.1.1	Current rating and overcurrent protection	Adequate cross sectional areas on internal wiring.	Ρ
3.1.2 O ¹⁰⁰	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.	Ρ
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	No such screw used.	N/A
3.1.7	Insulating materials in electrical connections	No non-metallic materials used in electrical connections	N/A
3.1.8	Self-tapping and spaced thread screws	No non-metallic materials used in electrical connections	N/A
3.1.9	Termination of conductors	No such terminal	N/A
O Home	10 N pull test	O HOL	N/A
3.1.10	Sleeving on wiring	No sleeving on wiring.	N/A

3.2	Connection to a mains supply	TRUPE TES	N/A
3.2.1	Means of connection	Class III equipment. Not directly connected to the mains.	N/A
3.2.1.1	Connection to an a.c. mains supply	- Day	N/A
3.2.1.2	Connection to a d.c. mains supply	THOM TES	N/A
3.2.2	Multiple supply connections	Class III equipment. Not directly connected to the mains.	N/A

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	IEC 60950-1		
Requirement + Test	O HUM	Result - Remark	Verdict
Permanently connected equipme	ent	The equipment is not intended for permanent connection to the mains.	N/A

	at the at the	mains.	
0	Number of conductors, diameter of cable and conduits (mm):	On On	
3.2.4	Appliance inlets	Class III equipment. Not directly connected to the mains.	N/A
3.2.5	Power supply cords	No power supply cord provided.	N/A
3.2.5.1	AC power supply cords	1 TESTINO	N/A
and	Туре:	and the	_
Co. O HU	Rated current (A), cross-sectional area (mm ²), AWG:	O numero	
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief	No such part.	₀ N/A
100	Mass of equipment (kg), pull (N):	HUAN TES	
	Longitudinal displacement (mm):		
3.2.7	Protection against mechanical damage	No such construction.	N/A
3.2.8	Cord guards	No such construction.	N/A
O to.	Diameter or minor dimension D (mm); test mass (g)	testine of the	
all	Radius of curvature of cord (mm):	Jah	
3.2.9	Supply wiring space	No such construction.	N/A

3.3	Wiring terminals for connection of external cond	ductors	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	C HUM	N/A
3.3.3	Screw terminals	Sin	N/A
3.3.4	Conductor sizes to be connected	- WAXTES'	N/A
O HUAX TE	Rated current (A), cord/cable type, cross-sectional area (mm ²):	C PROFESSION	_
3.3.5	Wiring terminal sizes	UN TESTA	N/A
ESTING (NU	Rated current (A), type, nominal thread diameter (mm):	WAK TESTING MUAK TESTIN	_
3.3.6	Wiring terminal design	<u>.</u>	N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire	STAR	N/A
1500.	AUAN IL HUAN IL HUAN IL	HUAKIL	
3.4	Disconnection from the mains supply		N/A

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STING	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
3.4.1	General requirement	Not directly connected to the mains.	N/A
3.4.2	Disconnect devices	- what tes	N/A
3.4.3	Permanently connected equipment	<u>.</u>	N/A
3.4.4	Parts which remain energized	-CSTNG	N/A
3.4.5	Switches in flexible cords	MALAN TISTING	N/A
3.4.6	Number of poles – single-phase and d.c. equipment	- critic to the	N/A
3.4.7	Number of poles – three-phase equipment	104.10	N/A
3.4.8	Switches as disconnect devices	AK TESTING AUAK TEST	N/A
3.4.9	Plugs as disconnect devices	O ton O to	N/A
3.4.10	Interconnected equipment		N/A
3.4.11	Multiple power sources	200	

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3.5	Interconnection of equipment		Р
3.5.1	General requirements	See below.	Р
3.5.2	Types of interconnection circuits:	SELV circuit only.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnection circuits.	N/A
3.5.4	Data ports for additional equipment	No such parts.	N/A

4	PHYSICAL REQUIREMENTS		Р
4.1	Stability		N/A
eNG.	Angle of 10°	34	N/A
	Test force (N)		N/A

4.2	Mechanical strength	TESTING	Р
4.2.1	General	Complies with the requirement also after tests described below are applied.	Р
	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	Р
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N	No hazards. The test is performed at plastic enclosure.	P
4.2.5	Impact test	THUNK TES	N/A
6	Fall test	0.0	N/A

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Clause Requirement + Test Result - Remark Verdict

	Swing test		N/A
4.2.6	Drop test; height (mm)	No hazard as result from the drop test at 1000mm height.	e ^{le} P
4.2.7	Stress relief test	0.0	N/A
4.2.8	Cathode ray tubes	No cathode ray tubes provided	N/A
	Picture tube separately certified	A HUAN	N/A
4.2.9	High pressure lamps	No high pressure lamps provided.	N/A
4.2.10	Wall or ceiling mounted equipment; force (N):	Not such equipment.	N/A

4.3	Design and construction		Р
4.3.1	Edges and corners	All edges and corners are rounded and/or smoothed.	Р
4.3.2	Handles and manual controls; force (N):	No such device.	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	Not such equipment.	N/A
STILL SUL	Torque:	JAK TESTIN - JUAK TEST	
Ø.	Compliance with the relevant mains plug standard	0	N/A
4.3.7	Heating elements in earthed equipment		N/A
4.3.8	Batteries	No battery provided.	N/A
0	- Overcharging of a rechargeable battery	0	N/A
	- Unintentional charging of a non-rechargeable battery	NAM TESTING	N/A
THURK TE	- Reverse charging of a rechargeable battery	C PUAKTES	N/A
Ø	- Excessive discharging rate for any battery	which	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

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IEC 60950-1 Requirement + Test **Result - Remark** Clause Verdict N/A Quantity of liquid (I) Flash point (°C): N/A 4.3.13 Radiation N/A 4.3.13.1 General N/A N/A 4.3.13.2 **Ionizing radiation** The equipment does not generate ionizing radiation. Measured radiation (Pa/kg) Measured high-voltage (kV) Measured focus voltage (kV) CRT markings The equipment does not 4.3.13.3 Effect of ultraviolet (UV) radiation on materials N/A produce significant UV radiation. Part, property, retention after test, flammability N/A classification 4.3.13.4 Human exposure to ultraviolet (UV) radiation: The equipment does not N/A produce significant UV radiation. 4.3.13.5 Lasers (including laser diodes) and LEDs See below. N/A 4.3.13.5.1 N/A Lasers (including laser diodes) No laser radiation. Laser class 4.3.13.5.2 Light emitting diodes (LEDs) 4.3.13.6 The equipment does not Other types: N/A generate other types of radiation.

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4.4	Protection against hazardous moving parts		N/A
4.4.1	General	No hazardous moving parts within the equipment	N/A
4.4.2	Protection in operator access areas	O HU ANA TEST	N/A
0.	Household and home/office document/media shredders	e restive	N/A
4.4.3	Protection in restricted access locations	300 - 500	N/A
4.4.4	Protection in service access areas	- HUAKTES' HUAKTE	N/A
4.4.5	Protection against moving fan blades	<u>.</u>	N/A
4.4.5.1	General		N/A
NG	Not considered to cause pain or injury. A)	-STING	o [©] N/A
0'	Is considered to cause pain, not injury. B)	O HUNK IN O HUNK IN	N/A

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Clause Requirement + Test **Result - Remark** Verdict Considered to cause injury. N/A

NG	C)	and		eNG.
4.4.5.2	Protection for users	THURN TEST	WUAK TES	N/A
Ő	Use of symbol or warning		Q.	N/A
4.4.5.3	Protection for service persons	TESTING		N/A
. TE	Use of symbol or warning	Con HUAN	V TESTING	N/A

4.5	Thermal requirements		Р
4.5.1	General	Considered.	Р
4.5.2	Temperature tests	(see appended table 4.5.5)	Р
	Normal load condition per Annex L:	Max. normal load condition.	
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	м ^е Р
4.5.5	Resistance to abnormal heat:	A HUNN	N/A

4.6	Openings in enclosures		Р
4.6.1	Top and side openings	See 4.6.4	N/A
0.	Dimensions (mm):	O T	
4.6.2	Bottoms of fire enclosures	See 4.6.4	N/A
ESTING	Construction of the bottomm, dimensions (mm) :	TESTING AN TESTIN	
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		Р
4.6.4.1	Constructional design measures	Providing openings that do not exceed 1 mm in width regardless of length.	^{ес} Р
	Dimensions (mm):	See above.	_
4.6.4.2	Evaluation measures for larger openings	M HUAK IL	N/A
4.6.4.3	Use of metallized parts	C HUAN	N/A
4.6.5	Adhesives for constructional purposes	-ESTING	N/A
-6	Conditioning temperature (°C), time (weeks):	July .	

Jbz.	4.7	Resistance to fire	O rote O rote	Р
	4.7.1	Reducing the risk of ignition and spread of flame	See below.	Р
restri	e e	Method 1, selection and application of components wiring and materials	Selection of components for the simulation of faults with acceptable results, and use of materials with the required flammability class. (see appended table 1.5.1)	P

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Clause	Requirement + Test	Result - Remark	Verdict
ß	Method 2, application of all of simulated fault condition tests	Method 1 used.	N/A
4.7.2	Conditions for a fire enclosure	See below.	Р
4.7.2.1	Parts requiring a fire enclosure	Min.V-1 class material for the fire enclosure.	Р
4.7.2.2	Parts not requiring a fire enclosure	See above.	N/A
4.7.3	Materials	HUNKIL	Р
4.7.3.1	General	Components and materials have adequate flammability classification. See appended table 1.5.1	P
4.7.3.2	Materials for fire enclosures	Min.V-1 class material for the fire enclosure.	Р
4.7.3.3	Materials for components and other parts outside fire enclosures	No such part.	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures	All components aret mounted on min. V-1 class PCB.	Р
4.7.3.5	Materials for air filter assemblies	No air filters in the equipment.	N/A
4.7.3.6	Materials used in high-voltage components	No high-voltage component.	N/A

5	ELECTRICAL REQUIREMENTS AND SIMULATED	ABNORMAL CONDITIONS	Ρ
5.1	Touch current and protective conductor current	UAR	N/A
5.1.1	General	Class III equipment. Not directly connected to the mains.	N/A
5.1.2	Configuration of equipment under test (EUT)		
5.1.2.1	Single connection to an a.c. mains supply		N/A
5.1.2.2	Redundant multiple connections to an a.c. mains supply	HUAR TESTE	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	TEINS	N/A
5.1.3	Test circuit	C HURN AN TESTRIC	N/A
5.1.4	Application of measuring instrument	- O ^{rb}	N/A
5.1.5	Test procedure	as reside	N/A
5.1.6	Test measurements	STING ISSUM	N/A
(A) HU	Supply voltage (V)	HUAN TE HUAN	
<i>w</i>	Measured touch current (mA):		
	Max. allowed touch current (mA)		
10	Measured protective conductor current (mA):	A TESTING A TEST	
0	Max. allowed protective conductor current (mA):	O Horn	
5.1.7	Equipment with touch current exceeding 3,5 mA	200	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.1.7.1	General	<u> </u>	N/A
5.1.7.2	Simultaneous multiple connections to the supply	STING	№ 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	O MAX TESTING	N/A
	Supply voltage (V)	N TESTING	
- and	Measured touch current (mA)	THE STA	
KTON BH	Max. allowed touch current (mA)	HUAN TEL	
5.1.8.2	Summation of touch currents from telecommunication networks	<u> </u>	N/A
-TNG	a) EUT with earthed telecommunication ports:	-040	N/A
0	b) EUT whose telecommunication ports have no reference to protective earth	O HUNGTON O HUNGTON	N/A

5.2	Electric strength		Con You	~5 ^{1**}	N/A
5.2.1	General	AN HUAN		THURS.	N/A
5.2.2	Test procedure	<i>w</i>	TESTING	<i></i>	N/A

5.3	Abnormal operating and fault conditions	INKTESTING THUNKTES	Р
5.3.1	Protection against overload and abnormal operation	See appended table 5.3	Р
5.3.2	Motors	No motor used.	N/A
5.3.3	Transformers	No transformers	N/A
5.3.4	Functional insulation:	Method c) used. Result see appended table 5.3.	Р
5.3.5	Electromechanical components	These equipments don't have any electromechanical components	N/A
5.3.6	Audio amplifiers in ITE:	-tSTING	N/A
5.3.7	Simulation of faults	(see appended table 5.3)	P
5.3.8	Unattended equipment	Not such equipment.	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	See below	Р
5.3.9.1	During the tests	No fire or molten metal occurred and no deformation of enclosure during the tests.	P
5.3.9.2	After the tests	0	N/A

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	ANTESTING.	Page 27 of 65	Report No.: HK19052	41145-SR
STANG	TESTING OF	IEC 60950-1	STING TEST	10 Om
Clause	Requirement + Test	C HUNN	Result - Remark	Verdict

6	CONNECTION TO TELECOMMUNICATION NETWORKS Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment		N/A
6.1			N/A
6.1.1	Protection from hazardous voltages	100	N/A
6.1.2	Separation of the telecommunication network from	earth	N/A
6.1.2.1	Requirements	No connection to telecommunication networks.	N/A
	Supply voltage (V)	UN TEST.	
STING	Current in the test circuit (Ma):	resting vitesting	
6.1.2.2	Exclusions	A HUNN	N/A

Protection of equipment users from overvo networks	Itages on telecommunication	N/A
Separation requirements	No connection to telecommunication networks.	N/A
Electric strength test procedure		N/A
Impulse test	11 M 1151	N/A
Steady-state test	0	N/A
Compliance criteria	ATTESTING.	N/A
	networks Separation requirements Electric strength test procedure Impulse test Steady-state test	Separation requirements No connection to telecommunication networks. Electric strength test procedure Impulse test Steady-state test Impulse

6.3		Protection of the telecommunication wiring system from overheating		
	<i>e</i>	Max. output current (A):	No connection to telecommunication networks.	
TNG		Current limiting method	TING	

7 🔘	CONNECTION TO CABLE DISTRIBUTION SYSTEM	ns 🕘 💮	N/A
7.1	General	Not connected to the cable distribution system.	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	Not connected to the cable distribution system.	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	Not connected to the cable distribution system.	N/A
7.4	Insulation between primary circuits and cable distribution systems	Not connected to the cable distribution system.	N/A
7.4.1	General	ama	₀₀ N/A
7.4.2	Voltage surge test	HUAKTL	N/A
7.4.3	Impulse test		N/A

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	UNK TESTING	Page 28 of 65	Report No.: HK1905	241145-SR
STING	TESTING ON	IEC 60950-1	-STING ITE	mo On
Clause	Requirement + Test	C HUAR	Result - Remark	Verdict

Α	ANNEX A, TESTS FOR RESISTANCE TO HEAT A	ND FIRE	_ Ν/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)		N/A
A.1.1	Samples	A HUNNY KESTING	_
O HUN	Wall thickness (mm)	0,"	
A.1.2	Conditioning of samples; temperature (°C)	NY TESTING	N/A
A.1.3	Mounting of samples	OTHE STAR	N/A
A.1.4	Test flame (see IEC 60695-11-3)	HUNK THE HUNK T	N/A
<u> </u>	Flame A, B, C or D		
A.1.5	Test procedure		N/A
A.1.6	Compliance criteria	TESTING TEST	[∞] N/A
6	Sample 1 burning time (s)	O HURY O HURY	_
	Sample 2 burning time (s)		
	Sample 3 burning time (s)		
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	01	
	Wall thickness (mm)	HUAK TEST	
A.2.2	Conditioning of samples; temperature (°C)		N/A
A.2.3	Mounting of samples		N/A
A.2.4	Test flame (see IEC 60695-11-4)	TISTING TIST	N/A
6	Flame A, B or C	C HUAR	
A.2.5	Test procedure		N/A
A.2.6	Compliance criteria	MAX TESTA	N/A
HALAH -	Sample 1 burning time (s)	O	
	Sample 2 burning time (s)	-mus	
	Sample 3 burning time (s)	JAK TEL	
A.2.7	Alternative test acc. To IEC 60695-11-5, cl. 5 and 9	A RUNE TESTING	N/A
1	Sample 1 burning time (s)		
	Sample 2 burning time (s)		
Mag.	Sample 3 burning time (s)	WTESTING WTEST	
	A 107 A 107		
A.3	Hot flaming oil test (see 4.6.2)	0	N/A

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Clause	Requirement + Test	Result - Remark Verdict
A.3.2	Test procedure	N/A
A.3.3	Compliance criterion	N/A

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL (5.3.2)	CONDITIONS (see 4.7.2.2 and	N/A
B.1	General requirements	Mular restruct	N/A
O Hom	Position	O HUM	
	Manufacturer	N TESTING	
STING	Туре	STING STING	
AL H	Rated values	HUAK IL HUAK	
B.2	Test conditions		N/A
B.3	Maximum temperatures		N/A
B.4	Running overload test	TESTING TEST	[©] N/A
B.5	Locked-rotor overload test	C HILD	N/A
	Test duration (days)		
	Electric strength test: test voltage (V)	- W	
B.6	Running overload test for d.c. motors in secondary circuits	C O MARTIN	N/A
B.6.1	General	LAK TESTA	N/A
B.6.2	Test procedure	-STING TESTING	N/A
B.6.3	Alternative test procedure	HUAK I. OHUAN	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	STAG	N/A
B.7.1	General	HUAK IL	N/A
B.7.2	Test procedure		N/A
B.7.3	Alternative test procedure	IN TESTING	N/A
B.7.4	Electric strength test; test voltage (V)	MAN TESTIN	N/A
B.8	Test for motors with capacitors	and Other	N/A
B.9	Test for three-phase motors	IAK TESTA	N/A
B.10	Test for series motors	TESTING TESTING	N/A
(C) H	Operating voltage (V)	RUAN . RUAN	

С	C ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)			N/A
ESTIMAL	Position	AN TESTING	WTEST	
	Manufacturer	O Horn	O m	
3	Туре	STAG		

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		IEC 60950-1		TESTING OF
use	Requirement + Test	O HUMAN	Result - Remark	Verdict
	Rated values	:		
	Mathed of protection		G	

			TEST	
C.1	Overload test	A HUPP	AND HURA	N/A
C.2	Insulation			N/A
	Protection from displacement of windings:	UNX TESTIN.	alla	N/A

ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)		
Measuring instrument	1	N/A
Alternative measuring instrument	HUAK I'L HUAK	N/A
	(see 5.1.4) Measuring instrument	(see 5.1.4) Measuring instrument

E	ANNEX E, TEM	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)			N/A
STING	restring	TESTING	TESTING	resting	STING
F	ANNEX F, MEA (see 2.10 and A		LEARANCES AND C	CREEPAGE DISTANCES	N/A

G struck res	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES		
G.1	Clearances	TESTING	N/A
G.1.1	General	Ser and	N/A
G.1.2	Summary of the procedure for determining minimum clearances	HANTEST	N/A
G.2	Determination of mains transient voltage (V)		N/A
G.2.1	AC mains supply		N/A
G.2.2	Earthed d.c. mains supplies	AN TESTING	N/A
G.2.3	Unearthed d.c. mains supplies	0 0	N/A
G.2.4	Battery operation	and	N/A
G.3	Determination of telecommunication network transient voltage (V):	MUARTLE MUARTESTING	N/A
G.4	Determination of required withstand voltage (V)	- and	N/A
G.4.1	Mains transients and internal repetitive peaks:	JAK TES	N/A
G.4.2	Transients from telecommunication networks:	TESTING ALTESTIN	N/A
G.4.3	Combination of transients	O HUM O HU	N/A
G.4.4	Transients from cable distribution systems		N/A
G.5	Measurement of transient voltages (V)		N/A
<i>U</i>	a) Transients from a mains supply	NAK TESTING	N/A
0	For an a.c. mains supply	0 0	N/A
	For a d.c. mains supply	7000	N/A

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		h	09	-	
	U	v		-	U -

STIN	IEC 60950-1	-c5mvG	TEST	
Test	CO HUAR	Result - Remark	HUAN	Verdict
19 A.				•

	b) Transients from a telecommunication network				N/A	
G.6	Determin	ation of minimum	clearances:	-csTNG	-51	N/A
	HURK	m ralat	HUDEL	HUAK	HUAK	

Н

	ANNEX H,	IONIZING	RADIATION	(see 4.3.13)
--	----------	----------	-----------	--------------

Requirement +

N/A

J MAX TES	ANNEX J, TABLE OF ELECTROCHEMICAL POTE	INTIALS (see 2.6.5.6)	N/A
0.	Metal(s) used		

ĸ	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	5.3.8)	* TESTING	N/A
K.1	Making and breaking capacity	A HUNK	O HOME	N/A
K.2	Thermostat reliability; operating voltage (V)			N/A
K.3	Thermostat endurance test; operating voltage (V)	-STMG	51	N/A م
K.4	Temperature limiter endurance; operating voltage (V)	C HURL	C HUAN	N/A
K.5	Thermal cut-out reliability			N/A
K.6	Stability of operation	(a) ^m	17ES1-	N/A

L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)		
L.1	Typewriters	IN TESTING - AUAK TESTING	N/A
L.2	Adding machines and cash registers	0	N/A
L.3	Erasers		N/A
L.4	Pencil sharpeners	2015	₀₀ N/A
L.5	Duplicators and copy machines	WUNK TES	N/A
L.6	Motor-operated files		N/A
L.7	Other business equipment	(see appended table 1.6.2)	Р

M	ANNEX M, CRITERIA FOR TELEPHONE RINGING	SIGNALS (see 2.3.1)	N/A
M.1	Introduction	K TESTING	N/A
M.2	Method A	-TING -STING	N/A
M.3	Method B	HUNK TE	N/A
M.3.1	Ringing signal		N/A
M.3.1.1	Frequency (Hz)		
M.3.1.2	Voltage (V):	TESTING	
M.3.1.3	Cadence; time (s), voltage (V):	O HUMAN O HUMAN	
M.3.1.4	Single fault current (Ma):		

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			•
	Tripping device and monitoring voltage		N/A

M.3.2	Tripping device and monitoring voltage		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	- wherester	N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V)	TESTING	N/A

N Other	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

Р

ANNEX P, NORMATIVE REFERENCES

Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	TES	N/A
	- Preferred climatic categories		N/A
	- Maximum continuous voltage		N/A
	- Combination pulse current	WTES -	N/A
O tor	Body of the VDR Test according to IEC60695-11-5	O rose	N/A
res MAG	Body of the VDR. Flammability class of material (min V-1)	-STING TESTING	N/A

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES		
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	NUM TESTING	^{ie} N/A
R.2	Reduced clearances (see 2.10.3)	0 0	N/A

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)		
S.1	Test equipment	O tour	N/A
S.2	Test procedure	KTESTING	N/A
S.3	Examples of waveforms during impulse testing	10 mile smi	N/A

т	ANNEX T, GUIL (see 1.1.2)	ROTECTION AGAINST INGRESS OF WATER N/A
36	16.	See separate test report

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

V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)				
V.1	Introduction	NY TESTING	O HUM	AK TESTING	N/A
V.2	TN power distribution systems	HO		O How	N/A

W	ANNEX W, SUMMATION OF TOUCH CURRENTS	TING STA	N/A
W.1	Touch current from electronic circuits	HUAR TE	N/A
W.1.1	Floating circuits		N/A
W.1.2	Earthed circuits		N/A
W.2	Interconnection of several equipments	TSTING TS	N/A
W.2.1	Isolation	C HURN	N/A
W.2.2	Common return, isolated from earth		N/A
W.2.3	Common return, connected to protective earth		N/A
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANS C.1)	FORMER TESTS (see clause	N/A
X.1	Determination of maximum input current	ak restore	N/A
X.2	Overload test procedure	and and	N/A

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

- ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2) N/A
- AA

Ζ

ANNEX AA, MANDREL TEST (see 2.10.5.8)

N/A

BB ANNEX BB, CHANGES IN THE SECOND EDITION

CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters	N/A
CC.1	General	N/A
CC.2	Test program 1	N/A
CC.3	Test program 2	N/A

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CC.4	Tost program 3		N/A
CC.4 CC.5	Test program 3		N/A
00.5	Compliance	104 75704 104 755	IN/A
DD	ANNEX DD, Requirements for the mounting mea equipment	ans of rack-mounted	N/A
DD.1	General	S HUAN TEL	N/A
DD.2	Mechanical strength test, variable N	St HURK IL	N/A
DD.3	Mechanical strength test, 250N, including end stops	NAS TESTING	N/A
DD.4	Compliance	-STING TESTIN	N/A

EE	ANNEX EE, Household and home/office document	/media shredders	N/A
EE.1	General		N/A
EE.2	Markings and instructions	restmic res	N/A
(8)	Use of markings or symbols:	C HURN	N/A
	Information of user instructions, maintenance and/or servicing instructions		N/A
EE.3	Inadvertent reactivation test	1" w 1151-	N/A
EE.4	Disconnection of power to hazardous moving parts:	O m	N/A
	Use of markings or symbols:	(TESTING	N/A
EE.5	Protection against hazardous moving parts	THE STR	N/A
(A)	Test with test finger (Figure 2A)	THURST AND THURST	N/A
19 C	Test with wedge probe (Figure EE1 and EE2):		N/A

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	UNK TESTING	Report No.: HK1905241145-S		
STING	TESTING O H	IEC 60950-1	HU STANG	ne Om
Clause	Requirement + Test	O HUM	Result - Remark	Verdict

1.5.1	TABLE: List of critic	al components			P
Object/part No	o. Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
PCB	AISHENG EXACTITUDE CIRCUITRY CO LTD	XC-019-V2	V-0, 130°C	UL 796	UL S ^{TING} (
(Alternative)	Interchangeable	Interchangeable	V-0, 130°C	UL 796	UL
Plastic materia of enclosure	I SHENZHEN HONGXIANG PLASTIC MATERIAL CO.,LTD.	6240T	Thickness: min.1.6mm, V- 0, 60 °C	UL 94	UL E340345
(Alternative)	Interchangeable	Interchangeable	Thickness: min.1.6mm, V- 0, 60 °C	UL 94	UL
Internal wire	Interchangeable	Interchangeable	VW-1, 300V, 80°C, 22AWG	UL 758	UL

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.

	in the second second		RJPa ¹	UI - IUI
1.5.1	TABLE: Opto Electronic Device	es arestine 🔍	TESTING	N/A
Manufactu	irer:	D	O HOM	O the second sec
Туре	:			
Separately	/ tested:			
Bridging in	sulation:			
External c	reepage distance:			
Internal cr	eepage distance			
Distance t	hrough insulation:			
Tested un	der the following conditions:			
Input	:			
Output	:			
suppleme	ntary information			
0	1 ¹⁰	O. The second se	(B)***	O. Por

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1.6.2 TABLE: Electrical data (in normal conditions)							P
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/statu	S
5Vdc	2.5	3	12.5	©	🔍	Max normal loa	d
		1.12	1.5		•		

Supplementary information: /

2.1.1.5 c) 1)	TABLE: m	nax. V, A, VA test	0****	TESTING	O HON	Р
Voltage (\	e (rated) √)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (ma (VA)	x.)
0	-	O HO	0	O HOL	0	
-	-					
supplement	ary informat	tion:				

2.1.1.5 c) 2)	TABLE: stored energy					
Capacitar	nce C (µF)	Voltage U	(V)		Energy E (J)	
<i>V</i>				-5TAG		
30	de B	Jan	-116 B	HUPAL	ъG	THE PUN
supplement	ary informati	on:				
0		65.	W.	63) ``		

2.2	TABLE: evalua	TABLE: evaluation of voltage limiting components in SELV circuits P						
Component (measured between)		max. voltage (V) (normal operation)		Voltage Limiting Component				
					V d.c.			
	- testing where the			C MARCE TESTING			ESTING	
Fault test	Fault test performed on voltage limiting components				Voltage measured (V) in SELV circuits (V peak or V d.c.)			
	THE MUSE		-6	NP BY	NAX	.G	THE PUP	
suppleme	entary information: /	,						
0)	0	0		0			

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and anno an

Clause	Requirement + Test	Result - Remark	Verdict

2.5	TABLE: Limited po	wer sources				N/A
Circuit outpu	it tested:	TESTING	TESTING	.15	TRUG	TESTING
Note: Measu	ured Uoc (V) with all l	oad circuits disc	onnected:	HUAN-	ALL HILL	ba
Component		Uoc (V)	l _{sc} (A)	V	A
	(Single fault)		Meas.	Limit	Meas.	Limit
HUAX		Con HULL	57	ŵ.	HUAX I	
Ŵ	-57813			STING	Ŵ	
~	NG HUAN		G	HULAN	<i>r</i> .	NG MUP
supplementa	ary information: /			,		
0	() ^m		O.M.	0.	

2.10.2 Table: working voltage measurement						
Location		RMS voltage (V)	Peak voltage (V)	Comments		
				(0)		
supplement	ary information:					

2.10.3 and 2.10.4	TABLE: Clearan	ce and cree	page distar	nce measurem	ents		N/A
	cl) and creepage) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)

2.10.5	TABLE: Distance through ins	sulation mea	suremen	its works		N/A
Distance th	rough insulation (DTI) at/of:	U peak (V)	U rms (V)	Test volt- age(V)	Required DTI (mm)	DTI (mm)
	TING	TING		HUANTES	TING	
HUAK TE	0	HJAK IL		I)	HUAK IL	
Ŵ	TING	99		CTING		
Supplemen	tary information:		C HU	as nesting		

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Clause Requirement + Test Result - Remark Verdict

4.3.8	TABLE:	Batteries							N/A
The tests o data is not		applicable	only when ap	propriate b	attery	- 4440	ESTING	- WAX TES	evo
Is it possibl	le to install	the battery	in a reverse	polarity pos	sition?	0		(O)	N/A
	Non-re	echargeable	e batteries		F	Rechargeal	ble batterie	es	•
WAX TE	Disch	arging	Un- intentional	Cha	rging	Disch	arging	Reve char	
0	Meas. current	Manuf. Specs.	charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	or restrict	- (HUN TISTNG	a numerost	 	- O ^m	A TESTING	HUAN TEST	-
Max. current during fault condition	RUAKTESTING	- 0	UAK TESTING	O ⁻² ^{JAK} ^{TT}	STRUG	6 mar	estinia	ALAN TES	nic
	-1- 	and the		-517		914 an		-617	
Test results	s:				1				Verdict
- Chemical	leaks	See.				Gian	I A A A A A A A A A A A A A A A A A A A		N/A

		22	100 · · · · ·	
- Chemical leaks	w.	-STING	9	N/A
- Explosion of the battery	· · · · · · · · · · · · · · · · · · ·	AN.		N/A
- Emission of flame or expulsion of r	nolten metal	OK TESTING	UNK TEST	N/A
- Electric strength tests of equipmen	it after completion of tests	O the	0.	N/A
Supplementary information: /				

4.3.8	TABLE: Batteries	AX TESTING	AK TESTING	VOX TESTICO	N/A
Battery ca	ategory	: -0	0	0	
Manufact	urer	:			
Type / mo	odel				
Voltage	<u></u>	TEST MANY			
Capacity.		9			
Tested ar	nd Certified by (incl. Ref. No.)	:			
Circuit pro	otection diagram:	i stille			
	HUAR TES	HUAK	HUAKTE	HUAR	

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STING	TESTING O	IEC 60950-1	STING	TESTING O
Clause	Requirement + Test	O HUPP	Result - Remark	Verdict

STING	-STING	-STING
HUAK I	AN HUAN	AND HUAR IN
S.		W
	OK TESTING	AIG
K TEST	O.m.	UAK TESTA
	HUACTESTING	ensine automa

4.5	TABLE: Thermal requ	irements									P
STREE	Supply voltage (V)		:	UAXTES	5\	/dc			AR TESTIN	UNA TEST	
0	Ambient T _{min} (°C)	~~~~~						0			
	Ambient T _{max} (°C)		:								
Maximum part/at	n measured temperature T	of					,	T (°C))		Allowe d T _{max} (°C)
Ambient				24.	.0	Shift 25.0					
PCB	10,		HUAK	41.	5	42.8	5			- HUAKTES!	130
Inductor of	coil	Q	9	39.	2	40.2	2	CTING-			100
Inside pla	astic enclosure			30.	.8	31.8	3				60
Outside p	lastic enclousre	IAK TESTRO	-	30.	5	31.5	5		AL TESTIN	A HUNE TEST	95
Internal w	vire	÷	(G)	36.	9	37.9	9	0		• <u> </u>	80
Suppleme	entary information: /										1
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
			Ø	9				0		0	
		16						TESTIN	G		
Suppleme	entary information: /			(ESTING			100	AUAN		V TESTING	1

_			2.5e	1 2 A
	4.5.5	TABLE: Ball pressure test of thermoplastic parts	-STAG	N/A
		Allowed impression diameter (mm)	10 ⁻¹⁰	_
85	Part		Test temperature (°C)	Impression diameter (mm)
ſ				
	<u> </u>		•	•

Supplementary information:--

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Clause	Requirement + Test	Result - Remark	Verdict

4.7 TAB	LE: Resistance to fire			Р
Part	Type of material	Thickness (mm)	Flammability class	Evidence
PCB	XC-019-V2	<u></u>	V-0	UL
Plastic material of enclosure	6240T	1.6	V-0	UL E340345
Supplementary in	formation:	0	A HUAN	1

5.1	TABLE: touch	o current measurement		UANTES	N/A
Measure	ed between:	Measured (Ma)	Limit (Ma)	Comments/conditions	
supplem	nentary information:				
()	INTESTI-	INCRESSION	AK TESTIN	WATESTIN.	WK TESTIN

5.2 TABLE: Electric strength tests, impulse tests and voltage surge tests			
Test vo	Itage applied between:	Voltage shape (AC, DC, impulse, surge)	Breakdown Yes / No
Supple	mentary information:		

5.3		TABLE: Fault con	ndition tes	sts				STAG	P
	and a	Ambient temperat	ure (°C)		UNK TE	:	25°	C if not mentioned	
		Power source for EUT: Manufacturer, model/type, output rating					See page 2		
Со	mponent No.	Fault	Supply voltage (V)	Test time	Fuse #	Fus curre (A	ent	Observation	
U	2 pin 1-3	S-C	5VDC	10 mins	STING	0,"	PX TE	Unit shut down immediately, damage, no hazard.	no
U	4 pin 2-6	S-C	5VDC	10 mins				Unit shut down immediately, damage, no hazard.	no
-0-1	R2	O-C	5VDC	10 mins				Unit shut down immediately, damage, no hazard.	no
	C4	S-C	5VDC	10 mins	UAK TESTRE			Unit shut down immediately, damage, no hazard.	no

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Verdict

		IEC 60950-1		
· .	 int fee	11124	 Sec. 1	

Clause	Requirement + Test
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Result - Remark

D2	S-C	5VDC	10 mins			Unit shut down immediately, no damage, no hazard.
USB1 port	Overload	5VDC	4hours3 5mins	Care TCD		The stable temperature rise was measured no hazards, no damaged. Ambient: 25°C PCB: 53.5°C Inductor winding: 48.1°C Outside enclosure surface: 32.8°C
USB2 port	Overload	5VDC	4hours4 0mins		C HUAK TE	The stable temperature rise was measured no hazards, no damaged. Ambient: 25°C PCB: 54.2°C Inductor winding: 48.5°C Outside enclosure surface: 33.1°C

C.2 TABLE: transformers N/A Loc. **Tested** insulation Working Working Required Required Required Required voltage voltage electric clearance / creepage distance thr. peak / V rms / V insul. strength mm distance / mm (2.10.2)(2.10.2)(5.2) (2.10.3)(2.10.4)(2.10.5)Loc. **Tested** insulation Test Measured Measured Measured clearance / creepage distance thr. voltage/ mm dist./ mm insul. / mm; V number of layers supplementary information:

10	HUAR	TURK TEA	HUAK		JAK TEN HUAR	
C.2	TABLE: tran	sformers	0	0.		N/A
Transfor	mer					

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* 2 or 3 layers / 0.4mm / Annex U

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Clause Requirement + Test

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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	Verdic
,	Clauses, subclauses, notes, t IEC60950-1 and it's amendm		ich are additional to those in	NUL TED
Contents	Add the following annexes:			
		Normative references ns with their correspo		6 ³
A2:2013)	Annex ZB (normative) Annex ZD (informative) flexible co			-006
General	Delete all the "country" notes according to the following list:		ument (IEC 60950-1:2005)	NK 100
	1.4.8Note 21.5.11.5.8Note 21.5.9.4	Note 1.7.2.1	1 Note 4, 5 & 6	
	2.2.3 Note 2.2.4 2.3.2.1 Note 2 2.3.4 2.7.1 Note 2.10.	Note Note 2 2.6.3.3 3.2 Note 2 2.10.5		AU & TESTING
	3.2.1.1 Note 2.10. 3.2.1.1 Note 3.2.4 4.3.6 Note 1 & 2 4.7	Note 3. 2.5.1 Note 4 4.7.2.2	Note 2	C~
	6 Note 2 & 5 6.1.2.1	3 & 4 5.3.7 Note 2 6.1.2.2 N	Note 1 ote	STING
	6.2.2 Note 6.2.2 7.1 Note 3 7.2 Note G.2.1 Note 2 Annex H	7.3	2 Note Note 1 & 2	
General A1:2010)	Delete all the "country" notes 1:2005/A1:2010) according to		ument (IEC 60950-	NK TESTING
	1.5.7.1 Note 6.1.2 6.2.2.1 Note 2 6.1.2	EE.3 Note 2		
General A2:2013)	Delete all the "country" notes 1:2005/A2:2013) according to 2.7.1 Note *		TING	NAK TESTING
	6.2.2. Note * Note of secretary: Text of Common		hanged	Ser.

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Clause Requirement + Test

Result - Remark

Verdict

Clause	IEC 60950-1, GROUP DIFFERENCES (CENELEC 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 multimediate of the safety of multimediate of the safety of the safe	eet safety requirements for multimedia	
3	60065 applies.	Ourses	N1/A
.3.Z1	Add the following subclause:	- HUAN TEL	N/A
	1.3.Z1 Exposure to excessive sound pressure	O .	
	The apparatus shall be so designed and constructed as to present no danger when used for its intended purpose, either in normal	UNACTESTING	
	operating conditions or under fault conditions, particularly providing protection against exposure to excessive sound pressures from headphones or earphones.	HUNK TESTING	TESTING (
	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	HUMTESTING	NK TESTING
	measurement methodology and limit considerations - Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level	6 ···	
O mir	measurement methodology and limit considerations - Part 2: Guidelines to associate sets with headphones coming from different manufacturers.	TETHE OHUN	
412:2011)	In EN 60950-1:2006/A12:2011	HUNN	00
	Delete the addition of 1.3.Z1 / EN 60950-1:2006	TESTING IN	TESTA- I
0	Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010	O HUM O HUM	
.5.1	Add the following NOTE:		
	NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC.	HUNKTESTINE	AL TESTING
Added info*)	New Directive 2011/65/11 *	0 0	
I. 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.	WANTESTING NUM TEST	N/A
.7.2.1	In EN 60950-1:2006/A12:2011	and a	N/A
A12.2011)	Delete NOTE Z1 and the addition for Portable	NY TESTIN	
	Sound System. Add the following clause and annex to the existing standard and amendments.	HUM RUNCTESTING	TESTING (
	Zx Protection against excessive sound pres	ssure from personal music	N/A
	players		

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BY THE DOC

A TEST	IEC60950_1E - ATTACH	1 (C) 1	- LANTES
Clause	Requirement + Test	Result - Remark	Verdic
	IEC 60950-1, GROUP DIFFERENCES (CENELE	C common modifications	EN)
Clause	Requirement + Test	Result - Remark	Verdic
s • ***	Zx.1 General This sub-clause specifies requirements for protection against excessive sound pressure fro personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use wir personal music players.	HUANTESTIN	N/A
	 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. 	6 HUNCTESTING	Union esting
	A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirement of this sub-clause. The requirements in this sub-clause are valid for	0.	HUAKTESI
	 music or video mode only. The requirements do not apply: while the personal music player is connected t an external amplifier; or while the headphones or earphones are not used. NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player. 	rt	nuar estars
	The requirements do not apply to: – hearing aid equipment and professional equipment; NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.	o waartesting	PUAKTESTICE
ak TESTING	 analogue personal music players (personal music players without any kind of digital processing of the sound signal) that are broug 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 few years it will no longer exist. This exemption will not be extended to other technologies. 		N/A
6	For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.	O Marine	O PO

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ON 2019-07-15. A1

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STING	IEC	60950_1E - ATTACH	MENT	G TESTING
Clause	Requirement + Test	C HUAN	Result - Remark	Verdict

Clause	Requirement + Test		Result - Remark	Verdict
Q	Zx.2 Equipment requirem No safety provision is requi complies with the following: – equipment provided as a	red for equipment that package (personal	MARTISTING	N/A
	music player with its lister the acoustic output LAeq,T while playing the fixed "pr noise" as described in EN	is \leq 85 dBA measured rogramme simulation 1 50332-1; and	O ^{ne} O ^{ne}	WTES'
	 a personal music player p analogue electrical output device, where the electric 	t socket for a listening	D PULL	www.csmic 0
	measured as described in playing the fixed "program as described in EN 50332	n EN 50332-2, while nme simulation noise" 2-1.	O tor C	ð
	NOTE 1 Wherever the term acous clause, the 30 s A-weighted equiv. LAeq.T is meant. See also Zx.5 and	alent sound pressure level	HUNCTISTING	NUX TESTING
	All other equipment shall: a) protect the user from unit outputs exceeding those			
	 b) have a standard acoustic exceeding those mention automatically return to ar 	coutput level not ned above, and	0 ¹¹¹	NK TEST
	exceeding those mention power is switched off; and		huse restu	-5106

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Clause Requirement + Test

Result - Remark

Verdict

Clause	Requirement + Test	Result - Remark	Verdict
ξG	c) provide a means to actively inform the us the increased sound pressure when the equipment is operated with an acoustic outp	but	N/A
	exceeding those mentioned above. Any me used shall be acknowledged by the user be activating a mode of operation which allows acoustic output exceeding those mentioned	for an	AK TESTING
	above. The acknowledgement does not nee be repeated more than once every 20 h of cumulative listening time; and NOTE 2 Examples of means include visual or audible	STILL BHUNKTE	withstand O
	Action from the user is always required. NOTE 3 The 20 h listening time is the accumulative lis time, independent how often and how long the person player has been switched off.	tening	D HUM
	 d) have a warning as specified in Zx.3; and e) not exceed the following: equipment provided as a package (plawith Its listening device), the acoustic ou 		HUNCTESTING
	shall be ≤ 100 dBA measured while play fixed "programme simulation noise" desc in EN 50332-1; and	ng the	
	 2) a personal music player provided with analogue electrical output socket for a lis device, the electrical output shall be ≤ 15 measured as described in EN 50332-2, v playing the fixed "programme simulation" 	tening 0 mV vhile	estine
	described in EN 50332-1. For music where the average sound pressu (long term LAeq,T) measured over the duration the song is lower than the average produce	on of	num hum
	the programme simulation noise, the warnin does not need to be given as long as the av sound pressure of the song is below the ba limit of 85 dBA. In this case T becomes the	ng verage	MULE TESTING
	duration of the song. NOTE 4 Classical music typically has an average sour pressure (long term LAeq.T) which is much lower than the average programme simulation noise. Therefore, if the	e player	ANTESTIG
	is capable to analyse the song and compare it with the programme simulation noise, the warning does not ne given as long as the average sound pressure of the so below the basic limit of 85 dBA.	ed to be	- 16 M
	For example, if the player is set with the programme simulation noise to 85 dBA, but the average music lev song is only 65 dBA, there is no need to give a warnin an acknowledgement as long as the average sound le the song is not above the basic limit of 85 dBA.	g or ask	D HUAN ESTIM

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	IEC60950_1E - ATTACHME	ENT	
Clause	Requirement + Test	Result - Remark	Verdict
	EC 60950-1, GROUP DIFFERENCES (CENELEC o		
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 num respect	N/A
	"To prevent possible hearing damage, do not listen at high volume levels for long periods."	nuartes	a testino
	Figure 1 – Warning label (IEC 60417-6044)	C HUNCTESTING	USTESTING
	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.	and the and the and the	
STNO	Zx.4 Requirements for listening devices (headp	phones and earphones)	N/A
	Zx.4.1 Wired listening devices with analogue input With 94 dBA sound pressure output $L_{Aeq,T}$, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be \geq 75 mV.	O MAR IN O MU	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). NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.	Numrestie Numrestie	ne

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	IEC60950_1E - ATTACHI	MENT	TESTING C
Clause	Requirement + Test	Result - Remark	Verdict
	IEC 60950-1, GROUP DIFFERENCES (CENELEC	common modifications EN)	•
Clause	Requirement + Test	Result - Remark	Verdict
5 0 10 10	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 $L_{Aeq,T}$ of the listening device shall be \leq 100 dBA.), wax testing	N/A
	This requirement is applicable in any mode when the headphones can operate, including any available setting (for example built-in volume leve control, additional sound feature like equalization etc.).	el and	NUM ESTIM
ESTIN	NOTE An example of a wired listening device with digital inputs a USB headphone.	ut	WINK TESTING
	Zx.4.3 Wireless listening devices In wireless mode:	(D) ¹ ()	N/A

with any playing and transmitting device playing the fixed programme simulation noise described

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 LAeg,T of the listening device

NOTE An example of a wireless listening device is a Bluetooth

Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall

NOTE Test method for wireless equipment provided without

in EN 50332-1; and

shall be ≤ 100 dBA.

Zx.5 Measurement methods

listening device should be defined.

headphone.

be 30 s.

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N/A

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Clause Requirement + Test

Result - Remark

Verdict

Clause	Requirement + Test	Result - Remark	Verdict
2.7.1	Replace the subclause as follows: Basic requirements	O round in	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):	HARTESTING HUARTES	W ^{RG}
	 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; 	Martistic China	X ESTING
	 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; 	Mular restance	UNCTESTING
O ⁽ⁿ⁾	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	HUAKTESTING	N/A
	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.	HUAKTESTING	A lestin a
2.7.2	This subclause has been declared 'void'.	HUAR TEST	UNCIE
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	0.00	N/A

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IEC60950 1E - ATTACHMENT Requirement + Test **Result - Remark** Verdict Clause IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN) Clause Requirement + Test Result - Remark Verdict 3.2.5.1 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 I 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. The harmonised code designations corresponding NOTE Z1 3.2.5.1 N/A to the IEC cord types are given in Annex ZD (A2:2013) N/A 3.3.4 In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following: Over 10 up to and including 16 | 1,5 to 2,5 | 1,5 to 4 Delete the fifth line: conductor sizes for 13 to 16 A N/A 4.3.13.6 Replace the existing NOTE by the following: (A1:2010) 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 96/29/Euratom. Delete NOTE 2. Bibliography Additional EN standards.

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	1 ANT TE	Page 51 of 65	Report No.: HK19	005241145-51
-comvo	E ITESTING	C60950_1E - ATTACHM	ENT	TESTING 0
Clause	Requirement + Test	UAN IL	Result - Remark	Verdict

	IEC 60950-1, GROUP DIFFERENCES (CENELEC common modifications EN)				
Clause	Requirement + Test	Result - Remark	Verdict		
ZA	NORMATIVE REFERENCES TO INT THEIR CORRESPONDING EUROPE	ERNATIONAL PUBLICATIONS WITH AN PUBLICATIONS	nu <u>—</u>		

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.	Mar restrict 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.	HUAKTESTING	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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Clause Requirement + Test

Result - Remark

Verdict

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test	HUAN	Result - Remark	Verdic
1.7.2.1	In Finland , Norway and Swe PLUGGABLE EQUIPMENT connection to other equipme if safety relies on connection if surge suppressors are con network terminals and acces marking stating that the equi connected to an earthed mai	TYPE A intended for nt or a network shall, to protective earth o nected between the sible parts, have a pment must be	, HUAN IL	N/A
	The marking text in the applie be as follows: In Finland : "Laite on liitettäva varustettuun pistorasiaan"		MUNICES .	O HUNNIN
	In Norway : "Apparatet må til stikkontakt"	koples jordet	A WAK TESTING	NUM TESTING
	In Sweden : "Apparaten skall uttag"	anslutas till jordat		0."
1.7.2.1 (A11:2009)	In Norway and Sweden , the distribution system is normal entrance of the building and equipotential bonding system Therefore the protective eart installation need to be isolate a cable distribution system.	ly not earthed at the there is normally no n within the building. hing of the building	HUAKTESTING	HUN TEST
	It is however accepted to pro external to the equipment by interconnection cable with ga may be provided by e.g. a re	an adapter or an alvanic isolator, whicl	h	•
	The user manual shall then h similar information in Norweg language respectively, deper country the equipment is inte	ian and Swedish nding on in what	What restruction	O NUKTOSIN
	"Equipment connected to the of the building installation thr connection or through other connection to protective earth distribution system using coa	ough the mains equipment with a hing – and to a cable ixial cable, may in	and the state	NAM TESTIG
	some circumstances create a Connection to a cable distrib therefore to be provided thro providing electrical isolation I frequency range (galvanic iso 60728-11)."	ution system has ugh a device pelow a certain	O " O HUNK TESTING	C HURL TESTING
	csmvG		S STANG	CSTING.

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Clause Requirement + Test

Result - Remark

k Verdict

ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)					
Clause	Requi	irement + Test	HUDEL	Result - Remark	Verdict
ю М	install Swed electri shall v r.m.s.	en, a galvanic isolato ical insulation below s withstand a dielectric , 50 Hz or 60 Hz, for	oution systems, and in r shall provide 5 MHz. The insulation strength of 1,5 kV 1 min.	• HUAKTESTING	N/A
		lation to Norwegian (be accepted in Norwa		D HUMA	NG ESTING
	nettple utstyr forårs ved til install	rr som er koplet til bes ugg og/eller via anne – og er tilkoplet et ka ake brannfare. For å lkopling av utstyret til leres en galvanisk iso bel- TV nettet."	t jordtilkoplet ibel-TV nett, kan unngå dette skal det kabel-TV nettet	HUANTESTING	HUAN STESTING
	Trans	lation to Swedish:			(62)
	jordat utrust nät ka brand	stning som är kopplac vägguttag och/eller v ning och samtidigt är an i vissa fall medföra I. För att undvika detta ustningen till kabel-T	via annan kopplad till kabel-TV risk főr a skall vid anslutning	O M	Mular Tress
	galvai		ellan utrustningen och	0 HO	NG UN ESTING
1.7.2.1 (A2:2013)	EQUI other on con suppri- termin stating	equipment or a netwo nnection to protective essors are connected nals and accessible p	nded for connection to ork shall, if safety relies e earth or if surge d between the network arts, have a marking must be connected to	NUAN TESTING	O tel stresting
0"	In De en stil	nmark: "Apparatets s	ark shall be as follows: tikprop skal tilsluttes m giver forbindelse til	WHARTESTU	MAXITISTI G
1.7.5	other Heavy Stand when STAT shall t	equipment shall be ir y Current Regulations lard Sheet DK 1-3a, I used on Class I equi IONARY EQUIPMEN	DK 1-5a or DK 1-7a, pment. For	numresta and	N/A
1.7.5 (A11:2009)	For C	LASS II EQUIPMEN	r the socket outlet shall adard Sheet DKA 1-4a.	O RUAN TEST	O HUA TEST

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Clause Requirement + Test

Result - Remark

nark Verdict

	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	NUM TESTIC	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	nux restriction of the second of the	WIESTING (
	shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with by DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-3b. Justification	C HUNTESTIC	WAR TESTING		
2.2.4	the Heavy Current Regulations, 6c In Norway , for requirements see 1.7.2.1, 6.1.2.1	O MAR TO	N/A		
2.3.2	and 6.1.2.2 of this annex. In Finland , Norway and Sweden there are		N/A		
2.0.2	additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.	HUNKTESTU			
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 HUAK TEST	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	O HUN TESTRE	N/A		
	conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.	O HUMPESTIC	THE		
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.	MAN TESTING	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:	O HUAR TONG O HU	N/A		
	SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A	NUM TESTING	WAX TESTING		

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Clause

Requirement + Test

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Result - Remark

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	1305	
ark	ALC: NO	Verdict

	ZB ANNEX (normative)				
SPECIAL NATIONAL CONDITIONS (EN)					
Clause	Requirement + Test	Result - Remark	Verdic		
NG HUAN	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	What resting	N/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:	HUN TESTING	e nun testre (
	SEV 5932-2.1998: Plug Type 25 , 3L+N+PE 230/400 V, 16 A SEV 5933-2.1998:Plug Type 21, L+N, 250 V, 16A	STING	-57046		
0	SEV 5933-2.1998: Plug Type 23, L+N+PE 250 V, 16A SEV 5934-2.1998: Plug Type 23, L+N+PE 250 V, 16 A	C PRINCILL	C roker		
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 m	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.	HUN AND HUN TESTING	HUAK ESTING		
	If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D1 or EN 60309-2.	Unix resine	NUX TESTING		

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k Verdict

		ANNEX (normative	· · · · · · · · · · · · · · · · · · ·		
TESTING	SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test		Result - Remark	Verdic	
3.2.1.1 (A2:2013)	In Denmark , supply cords of equipment having a rated cur 13 A shall be provided with a DS 60884-2-D1. CLASS I EQUIPMENT provide outlets with earth contacts or	rent not exceeding plug according to led with socket-	Wax resting	N/A	
	to be used in locations where indirect contact is required ac rules shall be provided with a with standard sheet DK 2-1a If a single-phase equipment I CURRENT exceeding 13 A c	e protection against coording to thewiring plug in accordance orDK 2-5a. naving a RATED	huwrester	HUAR ESTING	
	equipment is provided with a plug, this plug shall be in acc standard sheets DK 6-1a in I EN 60309-2. Justification the Heavy Current Regulation	supply cord with a ordance with the DS 60884-2-D1 or	Mun ristre	O HUR TESTING	
3.2.1.1	In Spain , supply cords of sin having a rated current not ex be provided with a plug acco 20315:1994.	gle-phase equipment ceeding 10 A shall	0 m	D. HUMPEST N/A	
	Supply cords of single-phase rated current not exceeding 2 provided with a plug accordin 50075:1993.	2,5 A shall be	HUNK IN	tuat estas	
	CLASS I EQUIPMENT provide outlets with earth contacts or to be used in locations where indirect contact is required ac rules, shall be provided with with standard UNE 20315:19	which are intended protection against coording to the wiring a plug in accordance	What testing	Must resting	
24	If poly-phase equipment is pr cord with a plug, this plug sha with UNE-EN 60309-2.	ovided with a supply all be in accordance	UNANTESTING	WHAT TESTING	
3.2.1.1	In the United Kingdom, app with a flexible cable or cord a connected to a mains socket 1363 by means of that flexibl plug, shall be fitted with a 'sta accordance with Statutory In: The Plugs and Sockets etc. (1994, unless exempted by th	nd is designed to be conforming to BS e cable or cord and andard plug' in strument 1768:1994 - Safety) Regulations	PRIAK TESTAK	N/A	
	NOTE 'Standard plug' is define and essentially means an ap conforming to BS 1363 or an conversion plug.	ned in SI 1768:1994 proved plug	Mult restric	O HURTISTING	

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Clause Requirement + Test

Result - Remark

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ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)				
Clause	Requirement + Test		Result - Remark	Verdic
3.2.1.1	In Ireland , apparatus which cable or cord and is designed a mains socket conforming to of that flexible cable or cord fitted with a 13 A plug in accord Statutory Instrument 525:1995 Standards Authority of Irelan Plugs and Conversion Adapt Use) Regulations 1997.	d to be connected to b I.S. 411 by means and plug, shall be ordance with 07 - National d (section 28) (13 A	una resta	N/A
3.2.4	In Switzerland , for requirem this annex.	ents see 3.2.1.1 of	0	N/A
3.2.5.1	In the United Kingdom , a per conductor of 1,25 mm2 is all with a rated current over 10 <i>J</i> including 13 A.	owed for equipment	A HUAK TESTING	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 nominarea.	accepted by terminals CURRENT of over A is:	O M	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 She (ISOD), the requirements of also apply.	tlet complying with ng Amendment D03 and the plug part MENT shall be , 12.1, 12.2, 12.3, 2.16 and 12.17, is performed at not metal earth pin is utter Opening Device	Municipal Municipal Municipal	
4.3.6	In Ireland , DIRECT PLUG-IN known as plug similar device comply with Statutory Instrur National Standards Authority 28) (Electrical plugs, plug sin sockets for domestic use) Re	es. Such devices shall nent 526:1997 - of Ireland (Section nilar devices and	nas terne	N/A

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Clause Requirement + Test

Result - Remark

k Verdict

	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)				
Clause	50	Requirement + Test	HUDATES	Result - Remark	Verdict
5.1.7.1	UNXT	In Finland , Norway and Swe CURRENT measurement resum Mar.m.s. are permitted only for equipment: • STATIONARY PLUGGABLE TYPE A that is intended to be used in	ults exceeding 3,5 or the following	WWAXTESTING	N/A
	0"	ACCESS LOCATION where e bonding has been applied, for telecommunication centre; and has provision for a perma PROTECTIVE EARTHING CO is provided with instruction	equipotential example, in a d anently connected DNDUCTOR; and ns for the	O HUN TESTING	O was come
	0	installation of that conductor b PERSON; • STATIONARY PLUGGABLE TYPE B;	CO HUAN .	HAR TEST	O MUNTESI
	JAX T	• STATIONARY PERMANEN ⁻ EQUIPMENT.	TLY CONNECTED	0"	INK TEST.
6.1.2.1 (A1:2010)		In Finland , Norway and Swe following text between the first paragraph of the compliance of	t and second	NUM TESTING	N/A
	•	If this insulation is solid, incluc forming part of a component, i consist of either		O HURK TESTING	non restrict
		 two layers of thin sheet n which shall pass the electric s or 		7005	
	0	- one layer having a distan insulation of at least 0,4 mm, v electric strength test below.		Mulu TESI	O HUNTESI
	UAKT	Alternatively for components, through insulation requiremen consisting of an insulating con filling the casing, so that CLEA CREEPAGE DISTANCES do	ts for the insulation npound completely ARANCES and not exist, if the	O HUAK TESTING	MAKTESTIG
	(m. 14	component passes the electric accordance with the complian and in addition	ce clause below	O NUM	HUANTESTING
	9	 passes the tests and insp 2.10.11 with an electric streng multiplied by 1,6 (the electric streng) 	th test of 1,5 kV	0	
	0	2.10.10 shall be performed us - is subject to ROUTINE T strength during manufacturing voltage of 1,5 kV.	ESTING for electric	num restrict	NU ACTESTING

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IEC60950_1E - ATTACHMENT

Clause Requirement + Test

Result - Remark

k Verdict

ZB ANNEX (normative)					
Clause	Requirement + Test	NATIONAL CONDITI	ONS (EN) Result - Remark		Verdict
P	It is permitted to bridge this in optocoupler complying with 2				N/A
	It is permitted to bridge this in capacitor complying with EN subclass Y2.		ak resine	O HURY	
	A capacitor classified Y3 acc EN 60384-14:2005, may brid under the following condition	ge this insulation	PRINT PRINT TESTIN	G HUAK	
	- the insulation requirement having a capacitor classified EN 60384-14, which in additi is tested with an impulse test EN 60950-1:2006, 6.2.2.1;	Y3 as defined by on to the Y3 testing,	HUAKTESTING	101	
	 the additional testing sh all the test specimens as des EN 60384-14: 		(B) (0	
	- the impulse test of 2,5 k before the endurance test the sequence of tests as des 14.	in EN 60384-14, in	0 m	O MANTESI	
6.1.2.2	In Finland, Norway and Swo are applicable for PERMANE EQUIPMENT, PLUGGABLE B and equipment intended to	ENTLY CONNECTED EQUIPMENT TYPE	O HUN	e O ^{wak}	N/A
	RESTRICTED ACCESS LOC equipotential bonding has be telecommunication centre, an provision for a permanently of PROTECTIVE EARTHING C provided with instructions for that conductor by a SERVICI	CATION where en applied, e.g. in a nd which has connected CONDUCTOR and is the installation of	HUAR TESTING	© "'	
7.2	In Finland, Norway and Swo requirements see 6.1.2.1 and annex.	d 6.1.2.2 of this	O HUAN	O RIAKTEST	[∞] N/A
	The term TELECOMMUNICA 6.1.2 being replaced by the to DISTRIBUTION SYSTEM.		huar restrict	G.	
7.3 (A11:2009)	In Norway and Sweden, for 1.2.13.14 and 1.7.2.1 of this		O HUNN	O m	N/A

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~5TNG	IEC6	0950_1E - ATTACHMEN	T comm	a anome
Clause	Requirement + Test	R	esult - Remark	Verdict

Annex ZD (informative)

Type of flexible cord	Code	designations
	IEC	CENELEC
PVC insulated cords		WAX TEN
Flat twin tinsel cord	60227 IEC 41	H03VH-Y
Light polyvinyl chloride sheathed flexible cord	60227 IEC 52	H03VV-F
11AN TEL		H03VVH2-F
Ordinary polyvinyl chloride sheathed flexible cord	60277 IEC 53	H05VV-F
at testing and testing and testing and		H05VVH2-F
Rubber insulated cords	A HO	
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	JAK	The WOAK
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

3

20 30 40

00 10

8

80 90

2



Photo 1: External view

i 09 02 08

30 50 10500 80 80 50 60 20 40 30 50 10100 80 80 50 60 20 40 30 50 5

Photo 2: External view

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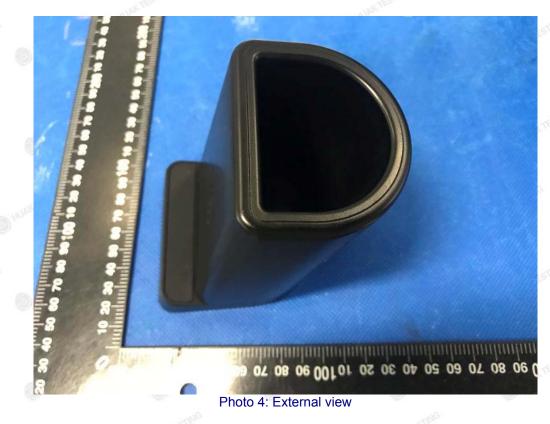
8

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Photo 3: External view



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Photo 5: External view

50 10 500 60 80 10 60 20 40 20 50 50 10 20 Photo 6: External view

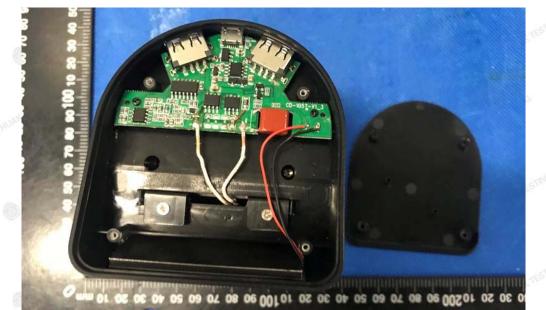
TRF No. IEC60950_1F

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0 80 10 60 20 40 30 50 10500 20 80 10 60 20 40 30 50 10100 20 80 10 60 20 40 30 50

Photo 7: Internal view

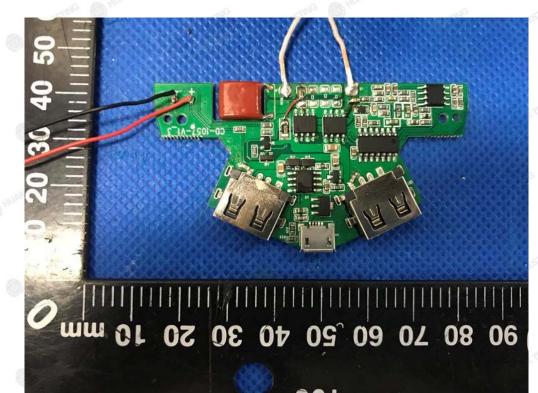


Photo 8: PCB view

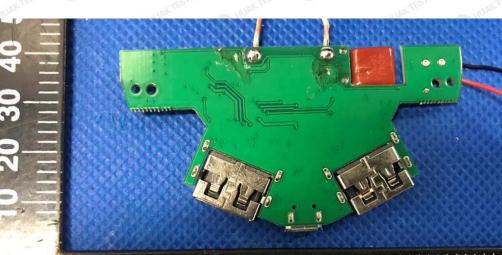
TRF No. IEC60950_1F

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0 80 20 60 60 40 30 20 10 mm

0 30 50 10100 <u>80 80 10 90 70</u>

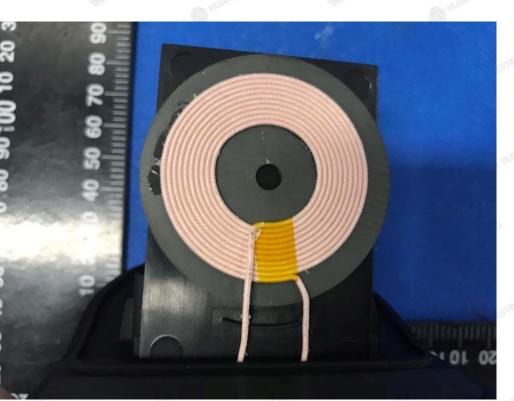


Photo 10: Incuctor view

-----End of report-----

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