

Shenzhen Anbotek Compliance Laboratory Limited Page 1 of 61 Report No.: SZAWW180912004-02S

APPLICATION FOR RED DIRECTIVE

On Behalf of

JEICO

Industrial wireless remote controller Model: JREMO 10K, REMO 10KA, JREMO 10KA+, JREMO 10KB, JREMO 10KC, JREMO 10KD, JREMO 10KM

Prepared For : JEICO

V9

94-1, Choryang-ro, Dong-gu, Busan, Korea (48805)

Prepared By

Shenzhen Anbotek Compliance Laboratory Limited 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102 Tel: (86)755-26066440 Fax: (86)755-26014772

 Date of Test:
 Sept. 12, 2018 to Oct. 10, 2018

 Date of Report:
 Oct. 10, 2018

 Report Number:
 SZAWW180912004-02S



TEST REPORT

IEC 60950-1

Information technology equipment – Safety – Part 1: General requirements

Report Number:	SZAWW180912004-02S
Date of issue:	Oct. 10, 2018
Total number of pages	61 pages
Applicant's name:	JEICO
Address:	94-1, Choryang-ro, Dong-gu, Busan, Korea (48805)
Test specification:	ek Anbole And sotek Anbolek Anbol ek sot
Standard:	IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
Test procedure:	Type Tested
Non-standard test method::	N/A stek Anbotek Anbotek Anbotek Anbotek
General disclaimer:	And hotek Anbotek Anboar ek abotek Anbotek

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

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por Annoter Anno	tek about All a sten
Testing procedure and testing location:	
Testing Laboratory:	Shenzhen Anbotek Compliance Laboratory Limited
Testing location/ address:	1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102
Tested by (name + signature):	Yoli Peng
Anbote Anto Anto Anto Anto Anto Anto Anto Anto	Anbouek Jeff zhn

Approved by (+ signature).....: Jeff Zhu



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Test item description:	Industrial wireless remote controller
Trade Mark:	JEICO ANDRES ANDRES ANDRES ANDRES AND
Manufacturer:	JEICO hotek Andor Andor Andore Andore
mbote Ant sotek Ambotek	94-1, Choryang-ro, Dong-gu, Busan, Korea (48805)
Model/Type reference::	JREMO 10K, REMO 10KA, JREMO 10KA+, JREMO 10KB, JREMO 10KC, JREMO 10KD, JREMO 10KM
Ratings:	TX Power: 6V===, 16mA RX Power: 100-230V ~, 50/60Hz, 0.5A
ter abo h.	
Tests performed (name of test and te clause):	



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Copy of marking plate:

JEICO Industrial wireless remote controller Model: JREMO 10K (TX) Input: 6V=== 16mA Product identification element: 1710001

Manufacturer: JEICO Address: 94-1, Choryang-ro, Dong-gu, Busan, Korea (48805)

JEICO[®] Industrial wireless remote controller Model: JREMO 10K (RX) Input: 100-230V~, 50/60Hz, 0.5A Product identification element: 1710001



Manufacturer: JEICO Address: 94-1, Choryang-ro, Dong-gu, Busan, Korea (48805)

(The label should be attached to the back of the product.)

- The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.



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Test item particulars:	
Equipment mobility:	Movable Hand-held Transportable Stationary For building-in Direct plug-in
Connection to the mains:	 Pluggable equipment Type A Type B Permanent connection Detachable power supply cord Non-detachable power supply cord Not directly connected to the mains built-in component, consider in end system
Operating condition:	Continuous Rated operating / resting time:
Over voltage category (OVC):	OVC I OVC II OVC III OVC IV Other:
Mains supply tolerance (%) or absolute mains supply values:	±10%
Tested for IT power systems:	🗌 Yes 🛛 No
IT testing, phase-phase voltage (V)	N.A. botek Anbote And atek anbote
Class of equipment	🔲 Class I 🛛 Class II For TX 🖾 Class III For
tek Anbotek Anbor Anbotek Anbotek Anb	RX Not classified
Considered current rating of protective device as part of the building installlation (A)	16A
Pollution degree (PD)	🔲 PD 1 🛛 PD 2 🔲 PD 3
IP protection class	IP20
Altitude during operation (m)	2000 March 100 M
Altitude of test laboratory (m)	v<500 Model And Solet And
Mass of equipment (kg):	Approx. 0.972Kg
Possible test case verdicts:	
- test case does not apply to the test object:	N (Not Applicable)
- test object does meet the requirement::	P (Pass)
- test object does not meet the requirement:	
Testing	lek Anbotek Anbo
Date of receipt of test item	Sept. 12, 2018
Date(s) of performance of tests	Sept. 12, 2018 to Oct. 10, 2018
N NOTE DATE SEE	No. P

stek



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General remarks:

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

Throughout this report a \Box comma / \boxtimes point is used as the decimal separator.

Note: Before placing the products in the different countries, the manufacturer must ensure that:

- 1. Operating Instructions, Ratings Labels and Warnings Labels written in an Accepted or Official Language of the county in question.
- 2. The equipment complies with the National Standards and/or Electrical Codes of the country in question.

3. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.

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.

YesNot applicable

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

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

Remark:

1. Clearance was evaluated for altitude up to 2000m above sea level.

2. The EUT can operate with full load at ambient temperature up to 60°C.

3. All models are identical, except for model No., colour of enclosure. Unless otherwise specified, the model "JREMO 10K" was chosen as representative model to perform all the tests.

Abbreviations used in the report:

- normal conditions - functional insulation	N.C. OP	- single fault conditions - basic insulation	S.F.C BI	
 double insulation between parts of opposite 	ADI Ashotek	- supplementary insulation	Slotek	
polarity	BOP	- reinforced insulation	RInbote	

Indicate used abbreviations (if any)



Clause	Requirement – Test	Result - Remark	Verdic
abotek	Anbout Ann cotek Anboten Anbo	her boten Anbote	AUL
1 hotek	GENERAL	out An wotek Anboten	P ^{nb}
Pun	tek anbotek Anbo ak botek p	nbote, And atek nbot	er b
1.5	Components	Anboten Anboursek	ote ^K P
1.5.1	General	Anbotek Anbot At	not P
Anbotek	Comply with IEC 60950-1 or relevant component standard	(see appended table 1.5.1)	Anbotel
1.5.2	Evaluation and testing of components	Anbo Ak botek	Rupe
1.5.3 Anbo	Thermal controls	No thermostat and temperature limiter used for thermal control circuit	K N A
1.5.4	Transformers	See annex C	aboteP
1.5.5	Interconnecting cables	anbotek Anbor	Pter
1.5.6	Capacitors bridging insulation	Y-cap (CY1), comply with IEC/EN 60384-14	Amp
1.5.7 Anbote	Resistors bridging insulation	ootek Anboten Anbo	Р
1.5.7.1 proof	Resistors bridging functional, basic or supplementary insulation	Functional insulation only	ptek P A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	Anbotek Anbotek	nboteŇ
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	ak Anbotek Anbotek	Anbot N
1.5.8	Components in equipment for IT power systems	Not directly connected to the mains	N
1.5.9	Surge suppressors	Anbote Ant stek anb	^{tek} N
1.5.9.1	General	Anboten Anbor tek	boteN
1.5.9.2	Protection of VDRs	Anbotek Anbote A	Nek
1.5.9.3	Bridging of functional insulation by a VDR	ok abotek Anboten	A N
1.5.9.4	Bridging of basic insulation by a VDR	wak whotek Anboten	N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	potek Anbotek Anbotek	NAM

1.6	Power interface	A. hotek Anbote. Ar	Pek
1.6.1	AC power distribution systems	TN, TT power distribution system	Anbore
1.6.2	Input current	(see appended table 1.6.2)	Pap
1.6.3 knbot	Voltage limit of hand-held equipment	atek Anboten Anbo	N
1.6.4	Neutral conductor	Basic insulation provided	Р

1.7.1	Power rating and identification markings	Anbotek	Anbo	Anotek	AnboP
1.7.1.1	Power rating marking	nbotek	Anbors	Annotek	ArPoter

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al-hotok	IEC 60950-1	Develt Disease Antipole	N. Pol
Clause	Requirement – Test	Result - Remark	Verdict
AUDO	Multiple mains supply connections	tek Anbor All botek	Nup
Pupor	Rated voltage(s) or voltage range(s) (V):	See label	P
ek Ant	Symbol for nature of supply, for d.c. only:		ote ^K P
ootet	Rated frequency or rated frequency range (Hz):	See label	٥ ⁰
botek	Rated current (mA or A):	See label	Prev
1.7.1.2	Identification markings	K sotek Anbotek	P
Anbote	Manufacturer's name or trade-mark or identification mark	Manufacturer: JEICO	P
ek Anb	Model identification or type reference:	See page 1	tek P
potek p	Symbol for Class II equipment only:	Ant Antoitek Antoitek Ant	InboteP
Anbotek Anbotek	Other markings and symbols:	Additional symbol or marking does not give rise to misunderstanding used.	Antipe Anbe
.7.1.3	Use of graphical symbols	otek Anbotek Anbot	P
.7.2	Safety instructions and marking	Anbo dek Anbotek Anb	Р
1.7.2.1	General	And tek abotek	nbote P
1.7.2.2	Disconnect devices	Anbou ok hotek	AnbPion
1.7.2.3	Overcurrent protective device	en Anbolt Ant hotek	Noo
1.7.2.4	IT power distribution systems	Not connected to IT power distribution systems	Nps
1.7.2.5	Operator access with a tool	No such area	o ^{tek} N
.7.2.6	Ozone	No ozone	nboteN
.7.3	Short duty cycles	Continuous operation	Nek
1.7.4	Supply voltage adjustment:	No such device	Not
Anboteh	Methods and means of adjustment; reference to installation instructions	otek Anbotek Anbote	N
1.7.5	Power outlets on the equipment:	No such device	Ke ^K N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):	F1, F2 marked on PCB near fuse and marked marked on schematic	nbotekP
1.7.7	Wiring terminals	No wiring terminal	Not
.7.7.1	Protective earthing and bonding terminals:	tek unbotek Anbote	P
.7.7.2	Terminals for a.c. mains supply conductors	tek nbotek Anboter	N
1.7.7.3	Terminals for d.c. mains supply conductors	No such terminals	N
.7.8	Controls and indicators	Anbor An hotek Ar	^{potek} N
.7.8.1	Identification, location and marking:	Anbote Anu otek	Anbotok
1.7.8.2	Colours	Anboten Anbo	N

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nbo rok	IEC 60950-1	Anbor K An wotek	Anboter
Clause	Requirement – Test	Result - Remark	Verdict
Anboto	Ann otek prostek Anbor An	diek Anboten Anbo	1
1.7.8.3	Symbols according to IEC 60417:	otek npotek Anbor	Nou
1.7.8.4	Markings using figures	NOT AD	NN
1.7.9	Isolation of multiple power sources:	Only one power sources	oten N
1.7.10	Thermostats and other regulating devices		Ntoda
1.7.11	Durability	Rubbing test for 15 s with water then for 15 s with petroleum spirit	Anbotek
1.7.12 note	Removable parts	tek nbotek Anbote	N
1.7.13	Replaceable batteries:	noot A botek Anbot	P
Nok Pr.	Language(s)	English	oter
1.7.14	Equipment for restricted access locations:	Anbote And And	nboteN
Anboro	Anno otek Anbotek Anbot ek sotek	Anbote, And Atek	nbotek
2 Anboto	PROTECTION FROM HAZARDS	tek Anboten Anbo	Popot
2.1 Anboten	Protection from electric shock and energy hazards	otek Anboten Anbot	Р
2.1.1	Protection in operator access areas	otek anbotek Anbot	Р
2.1.1.1	Access to energized parts	And tek abotek And	Р
-xeV	Test by inspection:	Anboy pak abotek	nboteP
Anbor	Test with test finger (Figure 2A):	Anbour An hotek	AnbPter
Anbou	Test with test pin (Figure 2B):	ek Anbote Am otek	Poot
Anbots.	Test with test probe (Figure 2C):	No TNV circuit within the equipment	NAN
2.1.1.2	Battery compartments	Anbo, ok sotek Anb	Р
2.1.1.3	Access to ELV wiring	No internal wiring at ELV	nboteN
Anbots	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)	(See appended tables 2.10.2 and 2.10.5)	Anbotek
2.1.1.4	Access to hazardous voltage circuit wiring	All hotek Anboten	PN
2.1.1.5	Energy hazards:	port Ant potek Anbotel	NAnt
2.1.1.6	Manual controls	No such control	Ke ^k N 1
2.1.1.7	Discharge of capacitors in equipment	Anboten Anbo	bote ^K N
nboten	Measured voltage (V); time-constant (s):	Anbotek Anbor A	abotek
2.1.1.8	Energy hazards – d.c. mains supply	ak Anbotek Anbote	Note
Anbotek	a) Capacitor connected to the d.c. mains supply:	tek nbotek Anbote	N
k Anbote	b) Internal battery connected to the d.c. mains supply:	nbotek Anbotek Anboten	N
2.1.1.9	Audio amplifiers:	anbotek Anbote Ant	oteKN
2.1.2	Protection in service access areas	No services access areas	N
2.1.3	Protection in restricted access locations	Equipment not intended to used in restricted access	Ambe



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Anboten	And hotek Ar	botek Aupor	EC 60950-1	Anboten	Anbo	Anbotek
Clause	Requirement –	Test And	rek abotek	Result - Rem	ark Anno dek	Verdict
Anboto	Ann	abotek Anbo	v pri	ek anbo	And And	et 100
Anbote	k Anbo	All abotek A	nboter Ano	locations	botek Anbor	Aur

2.2	SELV circuits	Anbote, And stek	otek P
2.2.1	General requirements	(see appended table 2.2)	abo ^t P
2.2.2	Voltages under normal conditions (V) :	Lessthan42.4Vpeakor60Vd.c	Brek
2.2.3	Voltages under fault conditions (V)	Less than 71Vp or 120Vp within 0.2s and less than 42.4Vp or 60Vd.c. after 0.2s.	And Anbote
2.2.4	Connection of SELV circuits to other circuits :	Connect to SELV circuits only	P Am

2.3	TNV circuits	Anboto K Ant Lotek	nboteN
2.3.1	Limits and house Andread Andread	No TNV circuits	Nek
Anbote	Type of TNV circuits	blek Anboten Anbo	pote
2.3.2	Separation from other circuits and from accessible parts	npotek Anbotek Anbot	N Anb
2.3.2.1	General requirements	Anboten Anbo	ptek N p
2.3.2.2	Protection by basic insulation	Anboten Anbo tek	boteN
2.3.2.3	Protection by earthing	Anbotek Anbor	Nex
2.3.2.4	Protection by other constructions	tek abotek Anbote	AmNotel
2.3.3	Separation from hazardous voltages	tek sotek Anbote	N
ek n	Insulation employed	hot An hotek Anbote	Aup.
2.3.4	Connection of TNV circuits to other circuits	Anboro K Ant	oten N P
pore p	Insulation employed	Anboten Anbo	abotek
2.3.5	Test for operating voltages generated externally	Anboten Anbo	N ^e ^K

2.4 Anboten	Limited current circuits	otek Anbotek Anbo	P
2.4.1 moot	General requirements	stek unbotek Anbor	P
2.4.2	Limit values	31.241mA	Р
pr rek	Frequency (Hz):	44.63KHz	iboteAnt
Anbo	Measured current (mA):	2.811mA	Anboten
Anbor	Measured voltage (V):	5.62V	Andotek
Anboro	Measured circuit capacitance (nF or µF)	otek Anbote, And atek	-nbotek
2.4.3	Connection of limited current circuits to other circuits	hbotek Anbotek Anbo	ek N Anhote
por An.	sotek Anbotek Anbo sak stotek	Anbote, And atek	botek Anb
2.5	Limited power sources	Anboten Anbo	N

	a) Inherentl	y limited ou	utput		Annotek			14.
oter	Anbo	P	Next.	bole	Ans	tek	Anboth	
		Shenzhe	n Anbo	tek Compl	iance Labora	atory Limited		

Note

Tel: (86)755-26066440 Fax: (86)755-26014772 www.anbotek.com

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npo A	IEC 60950-1	Anbor An otek	Anboten
Clause	Requirement – Test	Result - Remark	Verdict
Anboten	Ann tek sobotek Anbou An	tek unboten Anbo	10
botek	b) Impedance limited output	rek potek Anbore	N
stek Anbo	c) Regulating network limited output under normal operating and single fault condition	botek Anbotek Anbot	otek
botek Ar	Use of integrated circuit (IC) current limiters	An botek Anboten Ant	N
notek	d) Overcurrent protective device limited output	And stek unbotek	Anbo N
Anbotek	Max. Output voltage (V), max. Output current (A), max. Apparent power (VA):	See table 2.5	Anbote
Anboten	Current rating of overcurrent protective device (A).:	potek Anbotek Anbot	K Pu
ten buo	Use of integrated circuit (IC) current limiters	Anboten Anbo sek	otek
porek An	tek abolek Anbole Anbo	Anbotek Anbols An	hotek
2.6	Provisions for earthing and bonding	nbotek Anbote	Nek
2.6.1	Protective earthing	ak botek Anbotek	N
2.6.2	Functional earthing	K sotek anbotek	N
ek Anbot	Use of symbol for functional earthing	poten Anbotek Anbotek Anbote	N An
2.6.3	Protective earthing and protective bonding conductors	Anbotek Anboten And	nboteN
2.6.3.1	General	Anbote K Ant otek	An ^b N ^{tok}
2.6.3.2	Size of protective earthing conductors	ek Anboten Anbo	Noote
Anboten ak anbote	Rated current (A), cross-sectional area (mm²), AWG	otek Anbotek Anbo	Ant
2.6.3.3	Size of protective bonding conductors	Anbote K Ant otek Anbr	N
pote Ant	Rated current (A), cross-sectional area (mm ²), AWG	Anbotek Anbotek A	nbotek
Anbotek	Protective current rating (A), cross-sectional area (mm ²), AWG	K Anbotek Anbotek	Anbore
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min):	otek Anbotek Anbotek Anbotek	N _A mb
2.6.3.5	Colour of insulation:	Nnbotek Anbo	hote ^K N
2.6.4	Terminals	Anbotek Anbois A	NK
2.6.4.1	General	K abotek Anbotet	Note
2.6.4.2	Protective earthing and bonding terminals	Lok hotek Anbotek	N
K Anbotel	Rated current (A), type, nominal thread diameter (mm)	nbotek Anbotek Anbotek	_Anb
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	Anbotek Anboten Anbo	pote ^K N
2.6.5	Integrity of protective earthing	Anbote And Atek	Anbolok
2.6.5.1	Interconnection of equipment	Anboten Anbo	Note



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nbor P	IEC 60950-1	Anbote And And	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
poten	And K sotek Anbor And	tok shotek Anbo	P**
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	botek Anbotek Anboten	N
2.6.5.3	Disconnection of protective earth	abotek Anbote Anu	otek N
2.6.5.4	Parts that can be removed by an operator	An hotek Anboten An	N
2.6.5.5	Parts removed during servicing	Ann sotek Anbotek	Anbo N
2.6.5.6	Corrosion resistance	And otek Anbotek	Pu N
2.6.5.7	Screws for protective bonding	en Anbor tek potek	Nibo
2.6.5.8	Reliance on telecommunication network or cable distribution system	botek Anboit Anbotek Anbote	K N AS

2.7	Overcurrent and earth fault protection in primary ci	rcuits	Inbot P
2.7.1	Basic requirements	Anbor ek potek	AntPten
Anbotek	Instructions when protection relies on building installation	ek Anbotek Anbotek	Anbote
2.7.2	Faults not simulated in 5.3.7	pot A hotek Anbote	N And
2.7.3	Short-circuit backup protection	Building installation is considered as the short-circuit backup protection	nbotek
2.7.4	Number and location of protective devices	One fuse F1, F2 provided in line conductor	AnbPek
2.7.5	Protection by several devices	anbo Anbo Anbotek	Pooter
2.7.6	Warning to service personnel	Mentioned in service	PAnbo

2.8	Safety interlocks		boteN	An
2.8.1	General principles	No safety interlocks	N	1
2.8.2	Protection requirements	K Anbotek Anbout	Notek	1
2.8.3 model	Inadvertent reactivation	stek snbotek Anbote	N	18K
2.8.4 Mod	Fail-safe operation	stek nbotek Anbots	N	, o'
stek an	Protection against extreme hazard	inbut kek anbotek Anbo	N	
2.8.5	Moving parts	Anbo ek abotek A	N ^{loote} N	An
2.8.6	Overriding	Anbor An hotek	Anb N	1
2.8.7	Switches and relays and their related circuits	K Anbout Ann notek	Noten	
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)	otek Anbolek Anbotek	NANDO	ot
2.8.7.2	Overload test	nbo tek nbotek Anbo	N Pri	
2.8.7.3	Endurance test	Anbo tek Abotek Ar	^{pote} N	ZUL
2.8.7.4	Electric strength test	Anbour An hotek	Anbole	
2.8.8	Mechanical actuators	Anboth Ann otek	Noter	1



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Inport ok	An botek Anboten	IEC 60950-1	Anbote, And And	Anbotek
Clause	Requirement – Test	Anbor A. bote	Result - Remark	Verdict

K proto	Am hoten Anbo h.	stek spote Ans	V
2.9	Electrical insulation	Anbor An otek Anbor	P An
2.9.1	Properties of insulating materials	Anboter Anbotek	ote ^K P
2.9.2	Humidity conditioning	120hrs	P
Anbotek	Relative humidity (%), temperature (°C)	40°C, 95%	hotek
2.9.3	Grade of insulation	Functional insulation, basic insulation, supplementary insulation, reinforced insulation or double insulation provided	Anpote Anbote
2.9.4	Separation from hazardous voltages	And tek abotek Ant	P
notek	Method(s) used	Method 1, 3	upore.

tek.	And And And And	h stek shote	Ans
2.10	Clearances, creepage distances and distances thr	ough insulation	Phot
2.10.1	General	potek Anbote Ant note	P
2.10.1.1	Frequency	Considered	tek P
2.10.1.2	Pollution degrees	2 notek Anbote And	P
2.10.1.3	Reduced values for functional insualtion	See 5.3.4	nbo Pek
2.10.1.4	Intervening unconnected conductive parts	Ann otek Anbotek	Anbo
2.10.1.5	Insulation with varying dimensions	Anbotek anbotek	P
2.10.1.6	Special separation requirements	oten Anbortek potel	NAN
2.10.1.7	Insulation in circuits generating starting pulses	Anbotek Anboy rek abr	Ke ^K N
2.10.2	Determination of working voltage	(see appended table 2.10.2)	hote P
2.10.2.1	General	abotek Anbots A	Pek
2.10.2.2	RMS working voltage	(see appended table 2.10.2)	Am P ote
2.10.2.3	Peak working voltage	(see appended table 2.10.2)	PP
2.10.3	Clearances	ot Ann hotek Anboteh	PAnt
2.10.3.1	General	inbote And atek Anbo	P
2.10.3.2	Mains transient voltages	Anboten Anbo	bote ^k P
Anboten P	a) AC mains supply:	2500Vpeak	PK
Anboten	b) Earthed d.c. mains supplies	K Anbotek Anbot	Note
Anbotek	c) Unearthed d.c. mains supplies:	stek nbotek Anbots	N
K subotel	d) Battery operation:	tek spotek Anbote	N
2.10.3.3	Clearances in primary circuits	(see appended table 2.10.3 & 10.2.34)	P
2.10.3.4	Clearances in secondary circuits	hbotek Anbots Ar	N
2.10.3.5	Clearances in circuits having starting pulses	botek Anboten	Anna N. rel

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nbu A	IEC 60950-1	Anbot An otek	Anboten
Clause	Requirement – Test	Result - Remark	Verdict
Anboren	And tex potek Andor An	tek Anboten Anbo	
2.10.3.6	Transients from a.c. mains supply	tok nbotek Anbote	N
2.10.3.7	Transients from d.c. mains supply:	ibor An potek Anbot	NP
2.10.3.8	Transients from telecommunication networks and cable distribution systems	Anbotek Anbotek An	o ^{ten} N
2.10.3.9	Measurement of transient voltage levels	An hotek Anboten	Anbo Nek
Ar. notek	a) Transients from a mains suplply	K sotek Anbotek	Pupp.
Am	For an a.c. mains supply	And atek Anbotek	Nupor
Ann	For a d.c. mains supply	poten Anberek nboth	N AN
ter Anbo	b) Transients from a telecommunication network.:	Anboten Anboy An	ote ^k N
2.10.4	Creepage distances	(see appended table 2.10.3 & 10.2.34)	unboteP
2.10.4.1	General	Anbor tek abotek	Antote
2.10.4.2	Material group and caomparative tracking index	ek Anbor Att hotek	Pipor
Anbor	CTI tests:	poten Anbore Ant	K ant
2.10.4.3	Minimum creepage distances	(see appended table 2.10.3 & 10.2.34)	ote ^k P
2.10.5	Solid insulation	Anbors An hotek	nboten P
2.10.5.1	General	Anbore Ant hotek	AnbPret
2.10.5.2	Distances through insulation	(see appended table 2.10.5)	Roote
2.10.5.3	Insulating compound as solid insulation	otek Anboten Ann otel	N
2.10.5.4	Semiconductor devices	botek Anboten Anbo	tek N
2.10.5.5	Cemented joints	hotek Anbotek Anb	N
2.10.5.6	Thin sheet material	And wotek Anbotek A	NX
2.10.5.7	Separable thin sheet material	And otek Anbotek	Anbol
Anu	Number of layers (pcs):	Anbotek nbotek	Puppore
2.10.5.8	Non-separable thin sheet material	otek Anbo tek abotek	NAMO
2.10.5.9	Thin sheet material – standard test procedure	inbotek Anbor At	Kek N P
otek Anb	Electric strength test	Anbotek Anbot An	notek_
2.10.5.10	Thin sheet material – alternative test procedure	anbotek Anbote A	N×
nbotek	Electric strength test	K spotek Anbote	Anu-te
2.10.5.11	Insulation in wound components	tek abotek Anboten	N
2.10.5.12	Wire in wound components	or And hotek Anbotek	NAME
the pro-	Working voltage:	nbote Any otek Anbo	N P
ore kun	a) Basic insulation not under stress:	Anboten Anbo hek	p ^{otek} N
nboter P	b) Basic, supplemetary, reinforced insulation:	Anbotah Anbo A	nb ^o N ^N
Anbotek	c) Compliance with Annex	nbotek Anbor	Notel



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Clause	Requirement – Test	Result - Remark	Verdict
bolicuse		Nesur Freman	Verdier
An notek	U	K Ann sotek Anbotek	Anbot
And Anbo	Two wires in contact inside wound component; angle between 45° and 90°	Anbotek Anbotek Anbot	otek N Ant
2.10.5.13	Wire with solvent-based enamel in wound components	Anbotek Anbotek	Anbotek
nbotek	Electric strength test	ek abotek Anbote	A N N
abotek	Routine test	ok shotek Anboten	N
2.10.5.14	Additional insulation in wound components	both Ant hotek Anboth	N And
the Pure	Working voltage	Anbote K Ant	o ^{tek} N P
ipore An	- Basic insulation not under stress	Anboten Anbo	nboteN
Anbore	- Supplemetary, reinforced insulation	Anboten Anbo	Neek
2.10.6	Construction of printed boards	ek Anboten Anbo	Pupote
2.10.6.1	Uncoated printed boards	(see appended table 2.10.3 and 2.10.4)	PAnb
2.10.6.2	Coated printed boards	Anbote, Anb	ote ^K N P
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	Anbotek Anbotek	nboteN
2.10.6.4	Insulation between conductors on different layers of a printed board	ek Anbotek Anbotek	Anb <mark>N</mark>
Anboto	Distance through insulation	otek Anboten Anbo	N
ek Anbote	Number of insulation layers (pcs):	hotek Anboten Anbo	Kek N
2.10.7	Component external terminations	Ant sotek Anbotek Anb	N
2.10.8	Tests on coated printed boards and coated components	Antotek Anbotek P	nbot N N nbotek
2.10.8.1	Sample preparation and preliminary inspection	K Anboten Anbo	Notek
2.10.8.2	Thermal conditioning	otek anbotek Anbot	N
2.10.8.3	Electric strength test	otek Nubotek Aubor	N
2.10.8.4	Abrasion resistance test	inde stek anbotek Anbo	N
2.10.9	Thermal cycling	Ando tek abotek A	N N
2.10.10	Test for Pollution Degree 1 environment and insulating compound	Anborek Anborek	Anbotek
2.10.11	Tests for semiconductor devices and cemented joints	otek Anbotek Anbotek	Anbot Anbot
2.10.12	Enclosed and sealed parts	nbotek Anbor At abo	ek N An
otek Anbr	tek potek Anbote And	Anbotek Anbot An	notek
3 potek A	WIRING, CONNECTIONS AND SUPPLY	nbotek Anbota A	PK
3.1 notek	General	k sotek Anbote	And P.ok



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notok	IEC 60950-1	ND K DICK I ANDO	
Clause	Requirement – Test	Result - Remark	Verdict
3.1.1	Current rating and overcurrent protection	oftek Anbor An	Pnb
3.1.2	Protection against mechanical damage	hotek Anbort Ant	P N
3.1.3	Securing of internal wiring	A abotek Anboter And	ote ^K P
3.1.4	Insulation of conductors	An hotek Anboten An	P
3.1.5	Beads and ceramic insulators	K hotek Anbotek	Nte
3.1.6 moter	Screws for electrical contact pressure	K hotek Anbotek	N
3.1.7	Insulating materials in electrical connections	olen And stek Anbotek	P
5.1.8	Self-tapping and spaced thread screws	spotek Anbo A.	N P
.1.9	Termination of conductors	Anbotek Anbor An	oten P
potok p	10 N pull test	Anbotek Anbot An	Notep
5.1.10	Sleeving on wiring	K anbotek Anbote K	Nek
nbotek	Anbore And Anborek Anborek	rek abotek Anboten	hup.
.2	Connection to a mains supply	or An hotek Anbotek	P
.2.1	Means of connection	spote And totek Anbote	P
.2.1.1	Connection to an a.c. mains supply	Anboten Anbo	P
.2.1.2	Connection to a d.c. mains supply	Anboten Anbo	nbotek
.2.2	Multiple supply connections	Anbotek Anbot	NºN N
.2.3	Permanently connected equipment	tek Anbotek Anbort	Noot
Anbotek	Number of conductors, diameter of cable and	otek Anbotek Anbote	Alter
r anbo	conduits (mm)	nbo tek nbotek Anbote	A
.2.4	Appliance inlets	Anbor ok Anbotek Anb	N
.2.5	Power supply cords	Anbort An notek	nboten
.2.5.1	AC power supply cords	Anbolt Anthotek	AnbN
Anbort	Туре	tok Anbote And otek	anbot
Anbore	Rated current (A), cross-sectional area (mm ²), AWG	totek Anboten Anbo	An
.2.5.2	DC power supply cords	Inboten Anbo stek anbo	Kek N
.2.6	Cord anchorages and strain relief	Anborek Anbor Lok	bote ^K N
hotek	Mass of equipment (kg), pull (N)	Nnbotek Anbolt A	botek
Anbotek	Longitudinal displacement (mm)	ok anbotek Anbote	hor -ot
.2.7 noter	Protection against mechanical damage	tek abotek Anboten	N
.2.8	Cord guards	ok botek Anbotek	N
tek An	Diameter or minor dimension D (mm); test mass (g)	Anbotek Anbotek Anbo	otek
botek	Radius of curvature of cord (mm)	All hotek Anbotek A	,ou
.2.9	Supply wiring space	Ant stek spotak	Ambolin



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Anboro	Am hotek Anbotek	IEC 60950-1	Anboten Anbo	Anbotek
Clause	Requirement – Test	Anbo lek abote	Result - Remark	Verdict

3.3 Ano	Wiring terminals for connection of external conduc	tors	K N Anb
3.3.1	Wiring terminals	No such wiring terminals	ote ^K N
3.3.2	Connection of non-detachable power supply cords	Anbotek Anbote An	AnbotN
3.3.3	Screw terminals	Anbos ek sootek	ANNte
3.3.4	Conductor sizes to be connected	lek Anbor All hotek	Nibote
Anbot Anbot	Rated current (A), cord/cable type, cross- sectional area (mm ²):	botek Anbote An	K Anbr
3.3.5	Wiring terminal sizes	Anbor Ar botek Ant	N P
Anbotek P	Rated current (A), type, nominal thread diameter (mm):	Anbotek Anbotek	Inboten hotek
3.3.6	Wiring terminal design	ek abotek Anbote	AMN otek
3.3.7	Grouping of wiring terminals	an hotek Anboten	N
3.3.8	Stranded wire	port Ant sotek Anbote	N Anbe

3.4	Disconnection from the mains supply	Anboten Anbo	boteP
3.4.1	General requirement	Anbotek Anbo	Rek
3.4.2	Disconnect devices	ek nabotek Anbot	Photek
3.4.3 mo ^{ster}	Permanently connected equipment	stek nbotek Anbots	N
3.4.4	Parts which remain energized	tek nbotek Anbote	PAR
3.4.5	Switches in flexible cords	Anbo tek Anbotek Anb	N
3.4.6	Number of poles – single-phase and d.c. equipment	Anbotek Anbotek A	nbote P
3.4.7	Number of poles – three-phase equipment	K abotek Anbote	Am N stek
3.4.8 potek	Switches as disconnect devices	tek sbotek Anboten	N
3.4.9	Plugs as disconnect devices	or Anbotek Anbote	NAND
3.4.10	Interconnected equipment	No such equipment	N N
3.4.11	Multiple power sources	Anbote And And	bote ^K N

r wat	hote Ant tek nbo	Au	and
3.5	Interconnection of equipment		Potek
3.5.1 noter	General requirements	hotek Anboten Anbo	P
3.5.2 Anbote	Types of interconnection circuits	: Connect to SELV circuits	Р
3.5.3	ELV circuits as interconnection circuits	No ELV circuit	N
3.5.4	Data ports for additional equipment	Anbor ek abotek Ar	P
pupo p	at hote And ket	about Print	aten

4 0

PHYSICAL REQUIREMENTS

Shenzhen Anbotek Compliance Laboratory Limited Tel: (86)755-26066440 Fax: (86)755-26014772 www.anbotek.com P

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bor b	IEC 60950-1	Anbore K Ann sotek	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
anboten	And let potek Anbot An	tek photen Anbo	pu no ^{te}
4.1 botek	Stability	ak hotek Anbote.	N
	Angle of 10°	hore Ant sotek Anbot	N Ant
Le. Ans	Test force (N)	Anboten Anot tek	ote ^K N
poter Ar	to Anotek Anbote Ano	abotek Anbor An	tek.
4.2 otek	Mechanical strength		AND P. P.
4.2.1	General	K sotek Anbotek	A ^{nb0}
4.2.2	Steady force test, 10 N	And tek nbotek	Pupor
4.2.3	Steady force test, 30 N	boten Anbor Ak abot	K N And
4.2.4	Steady force test, 250 N	Anbotek Anbot At	otek P p
4.2.5	Impact test	Anbotek Anbor An	P
nbotek	Fall test	500g, 1.3m	Ptek
abotek	Swing test	ek botek Anbote.	An N stel
4.2.6	Drop test; height (mm)	K wotek Anboten	N
4.2.7	Stress relief test	90°C, 7h	PAnb
4.2.8	Cathode ray tubes	Anboten Anbo	ote ^K N P
poten An	Picture tube separately certified:	Anbotek Anbo tek	boteN
4.2.9	High pressure lamps	No high pressure lamps in the equipment.	AnbNek
4.2.10	Wall or ceiling mounted equipment; force (N):	Not intended to be mounted on a wall or ceiling.	PN ^{ooten}
4.2.11 Anbolt	Rotating solid media	ntek Anbotek Anbote	N
Not Not	Test to cover on the door:	and botek And	N

Design and construction	Anbor pri hotek	AnbP
Edges and corners	The outer surface of the equipment is smooth	ARoote
Handles and manual controls; force (N):	ek abotek Anbote	NAME
Adjustable controls	No adjustable controls	N P
Securing of parts	Anbold Ann hotek A	iboten P
Connection by plugs and sockets	Anbote, And And	anb NK
Direct plug-in equipment	k Anboten Anbo	Notek
Torque:	stek Anbotek Anbo	
Compliance with the relevant mains plug standard:	nbotek Anbotek Anbot	lek N A
Heating elements in earthed equipment	No such elements	bote ^K N
Batteries	Anbotek Anbou At	
- Overcharging of a rechargeable battery	t botek Anbote	Any N.tek
	Edges and corners Handles and manual controls; force (N): Adjustable controls Securing of parts Connection by plugs and sockets Direct plug-in equipment Torque Compliance with the relevant mains plug standard Heating elements in earthed equipment Batteries	Edges and cornersThe outer surface of the equipment is smoothHandles and manual controls; force (N)Adjustable controlsAdjustable controlsNo adjustable controlsSecuring of partsConnection by plugs and socketsDirect plug-in equipmentTorqueTorqueCompliance with the relevant mains plug standardHeating elements in earthed equipmentNo such elementsBatteriesNo such elements



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n hotok	IEC 60950-1	P w ptek hopote.	Ant
Clause	Requirement – Test	Result - Remark	Verdict
Aupor	- Unintentional charging of a non-rechargeable	Non-rechargeable battery	Phot
	battery	Non-rechargeable ballery	F
tek Anb	- Reverse charging of a rechargeable battery	hotek Anbotek Anbo	N Never
notek p	- Excessive discharging rate for any battery	And hotek Anbotek An	N
4.3.9	Oil and grease	No oil and grease	Anborn N.oK
4.3.10	Dust, powders, liquids and gases	No dust, powders, liquids and gases	AnN
4.3.11 Mo ^{ver}	Containers for liquids or gases	No such containers	N
4.3.12	Flammable liquids:	No flammable liquid	N
otek	Quantity of liquid (I):	Anb otek anbotek Ant	N
ipo stek	Flash point (°C):	Anbos ek anbotek	unboton N
4.3.13	Radiation	Anbor ek abotek	Anth
4.3.13.1	General	ek Anborn Ann hotek	Noote
4.3.13.2	Ionizing radiation	No ionizing radiation	K N pot
ek Anbo	Measured radiation (pA/kg):	abotek Anboten Anbo	tek
botek Ar	Measured high-voltage (kV):	Anbotek Anboten Anb	-te t -
botek	Measured focus voltage (kV):		nbo ek
Ar. hotek	CRT markings:	Ant otek Anbotek	Anbor
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	Noor
ek Anbo	Part, property, retention after test, flammability classification:	poten Anbo	NAND
4.3.13.4	Human exposure to ultraviolet (UV) radiation :	And stek nbotek Anbr	Ν
4.3.13.5	Lasers (including laser diodes) and LEDs	Anbu tek potek A	nbote N
4.3.13.5.1	Lasers (including laser laser diodes)	Anbos Al abotek	Anb
Anbor	Laser class:	Class I	Anbote
4.3.13.5.2	Light emitting diodes (LEDs)	otek Anboten Ano	anb
4.3.13.6	Other types	watek Anboten Anbo	N N

4.4 ve*	Protection against hazardous moving parts		N
4.4.1	General	And stek subotek	Anbol
4.4.2	Protection in operator access areas::	Anbu stek nbotek	PNOLO
Anbote Anbote	Household and home/office document/media shredders	(see Annex EE)	N _k nb ^c
4.4.3	Protection in restricted access locations:	no stek nbotek Anbo	N
4.4.4	Protection in service access areas	Anbor tek abotek Ar	N ^{loote} N
4.4.5	Protection against moving fan blades	Anbor An potek	Anboken
4.4.5.1	General	Anbort Ann sotek	ArNoter



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hpore	IEC 60950-1	Anboten Anboundtek	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
hoter	Anbor K sotek Anbor An	ek aboten Anbo	Pro di
	Not considered to cause pain or injury. a):	An hotek Anboten	Napo
P.C.	Is considered to cause pain, not injury. b):	abote And And Anbot	N An
oro A'	Considered to cause injury. c):	Anboten Anbotek n	ote ^K N
4.4.5.2	Protection for users	Anboten Anbor kek	abo ^t N
Anboten	Use of symbol or warning:	Anbotek Anboa	Ntok
4.4.5.3	Protection for service persons	lek hnbotek Anbot	Not
s nbo	Use of symbol or warning:	tek abotek Anbote	N

4.5	Thermal requirements	Anbor An botek Ant	P
4.5.1	General	Anbore Ann hotek	nboteP
4.5.2	Temperature tests	Anboto Ant Lotek	AntPrek
Anbort	Normal load condition per Annex L:	lek Anboten Anb	nbote
4.5.3 Anbolo	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat:	(see appended table 4.5.5	N

ate.	AND AK DOL AN	ter not	N.
4.6	Openings in enclosures	Anbor An botek	AnbN
4.6.1	Top and side openings	Anbors An. sotek	Noote
Anbors	Dimensions (mm):	otek Anboten Anu ote	- <u>-</u> _ nb
4.6.2	Bottoms of fire enclosures	botek Anboten Anbo	Kek N
botek Ant	Construction of the bottomm, dimensions (mm):	kno botek Anbotek Anb	.ek-
4.6.3	Doors or covers in fire enclosures	And stek unbotek A	N N
4.6.4	Openings in transportable equipment	And stek	AnbN
4.6.4.1	Constructional design measures	Anbo tek tootek	AN ^{oter}
Anbo	Dimensions (mm):	otek Anbor An hotek	Anbo
4.6.4.2	Evaluation measures for larger openings	abotek Anbote Ans	KK N
4.6.4.3	Use of metallized parts	hotek Anboten Anb	N
4.6.5	Adhesives for constructional purposes	All hotek Anbotek A	N
An	Conditioning temperature (°C), time (weeks):	And tek botek	Aupor

4.7 And	Resistance to fire		PAnbo
4.7.1 M	Reducing the risk of ignition and spread of flame	nbotek Anbor An	Nek P N
potek An	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	poteKP
Anbotek	Method 2, application of all of simulated fault condition tests	Anbotek Anbotek	Anboth

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nbor P	IEC 60950-1	Anbote Ant atek	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
nbote	And K sotek Anboth An	tek boten Anbo	P*
4.7.2	Conditions for a fire enclosure	An hotek Anboten	Pabe
4.7.2.1	Parts requiring a fire enclosure	abote And otek anbot	P P
4.7.2.2	Parts not requiring a fire enclosure	Anboten Anbo	ote ^K N
4.7.3	Materials	Anbotek Anbot At	botek
4.7.3.1	General	PCB:V-0	Ptek
4.7.3.2	Materials for fire enclosures	(see appended table 1.5.1)	AnP
4.7.3.3	Materials for components and other parts outside fire enclosures	potek Anbotek Anbotek	P
4.7.3.4	Materials for components and other parts inside fire enclosures	(see appended table 1.5.1)	otek N
4.7.3.5	Materials for air filter assemblies	No air filter assemblies.	anboten
4.7.3.6	Materials used in high-voltage components	No high-voltage components	ntN ^{tek}

5 mbore	ELECTRICAL REQUIREMENTS AND SIMULATE	D ABNORMAL CONDITIONS	Р
5.1 m ^{bot}	Touch current and protective conductor current	ho. A. potek Anbote	P
5.1.1	General	Anbot An	Р
5.1.2	Configuration of equipment under test (EUT)	Anbor All botek	nboten N
5.1.2.1	Single connection to an a.c. mains supply	Anbou All hotek	AnDN
5.1.2.2	Redundant multiple connections to an a.c. mains supply	ek Anbole Anb	PN ^{oote}
5.1.2.3 Mode	Simultaneous multiple connections to an a.c. mains supply	Anbotek Anbotek Anbote	N ^{Amb}
5.1.3	Test circuit	Anbotek Anbor An	hoteP
5.1.4	Application of measuring instrument	See Annex D	Rek
5.1.5	Test procedure	K abotek Anboten	Ant P del
5.1.6 botek	Test measurements	lek botek Anboten	Р
ek pote	Supply voltage (V)	253Vac	_Anb
All All	Measured touch current (mA):	(see appended Table 5.1)	ren b
poro Am	Max. Allowed touch current (mA):	(see appended Table 5.1)	potek_
Anbote.	Measured protective conductor current (mA):	Anboten Anbo hek	abotek
Anboten	Max. Allowed protective conductor current (mA):	K Anbotek Anbot	Ar. notek
5.1.7 notek	Equipment with touch current exceeding 3,5 mA	tek nbotek Anboto	N
5.1.7.1 5.1.7	General:	tek spotek Anbote	N
5.1.7.2	Simultaneous multiple connections to the supply	nbor All botek Anbo	N N
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	Anbotek Antotek Ar	Anbotek
5.1.8.1	Limitation of the touch current to a	Anbors Ans hotek	ATNOLO

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Clause	Requirement – Test	Result - Remark	Verdict
botek	Anbor An otek Anboren Anbo	ok hotek Anbote	PUP
Anboth	telecommunication network or to a cable distribution system	notek Anbotek Anbotek	ek Anbo
tek Ant	Supply voltage (V)	notek Anbotek Anbo	- ak
otek	Measured touch current (mA)	And tek nbotek An	0 ⁰
ipo stek	Max. Allowed touch current (mA)	Anbos tek abotek	Aupoton .
5.1.8.2	Summation of touch currents from telecommunication networks	Jek Anbotek Anbotek	PUN N
nbote	a) EUT with earthed telecommunication ports:	tek sobotek Anbote	N
lek Anb	b) EUT whose telecommunication ports have no reference to protective earth	Anbotek Anbotek Anbot	otek N Ar
poter P	nbote And And And	abotek Anbots An	tek.
5.2 tek	Electric strength	An otek Anbotek	Kupo P
5.2.1	General	(see appended table 5.2)	Aup
5.2.2	Test procedure	ten Anbor ek motek	Ripol
- upor	PU. K LOTON MAD	lek bot pris	
5.3	Abnormal operating and fault conditions	nbotek Anbotek Anbotek	tek P
N.	Abnormal operating and fault conditions Protection against overload and abnormal operation	(see appended table 5.3)	And P
5.3.1	Protection against overload and abnormal	(see appended table 5.3)	P P N
5.3.1 5.3.2	Protection against overload and abnormal operation	(see appended table 5.3) (see appended Annex C)	nbote P
5.3.1 5.3.2 5.3.3	Protection against overload and abnormal operation Motors	Anbotek Anbotek A	P N
5.3.1 5.3.2 5.3.3 5.3.4	Protection against overload and abnormal operation Motors Transformers	(see appended Annex C)	P N P
5.3.1 5.3.2 5.3.3 5.3.4 5.3.5	Protection against overload and abnormal operation Motors Transformers Functional insulation	(see appended Annex C)	P N P P
5.3.1 5.3.2 5.3.3 5.3.4 5.3.5 5.3.6	Protection against overload and abnormal operation Motors Transformers Functional insulation Electromechanical components	(see appended Annex C)	P N P P
5.3.1 5.3.2 5.3.3 5.3.4 5.3.5 5.3.6 5.3.7	Protection against overload and abnormal operation Motors Transformers Functional insulation Electromechanical components Audio amplifiers in ITE	(see appended Annex C)	P N P P P N
5.3 5.3.1 5.3.2 5.3.3 5.3.4 5.3.5 5.3.6 5.3.7 5.3.8 5.3.9	Protection against overload and abnormal operation Motors Transformers Functional insulation Electromechanical components Audio amplifiers in ITE Simulation of faults	(see appended Annex C)	P N P P N N
5.3.1 5.3.2 5.3.3 5.3.4 5.3.5 5.3.6 5.3.7 5.3.8	Protection against overload and abnormal operation Motors Transformers Functional insulation Electromechanical components Audio amplifiers in ITE Simulation of faults Unattended equipment Compliance criteria for abnormal operating and	(see appended Annex C) By Short circuit	P N P P N P N
5.3.1 5.3.2 5.3.3 5.3.4 5.3.5 5.3.6 5.3.7 5.3.8 5.3.9	Protection against overload and abnormal operation Motors Transformers Functional insulation Electromechanical components Audio amplifiers in ITE Simulation of faults Unattended equipment Compliance criteria for abnormal operating and fault conditions	(see appended Annex C) By Short circuit	P N P P N P N P

6.1.2.1	Requirements	Not connect to telecommunication networks	Ann Notek
6.1.2	Separation of the telecommunication network from earth	Anbotek Anbotek Ar	pote N
6.1.1	Protection from hazardous voltages	nbo stek nbotek Anbo	N
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	otek Anbotek Anbotek otek Anbotek Anbotek	Anbote Anbote
6.00	CONNECTION TO TELECOMMUNICATION NET	WORKS	Anber

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Anbor	IEC 60950-1	nbotek
Clause	Requirement – Test Result - Remark	Verdict
npotor	And k otek Andors And tek abotek Andor	p. d
	Supply voltage (V)	Aupo
Aur	Current in the test circuit (mA):	- An
6.1.2.2	Exclusions	otek N
nbotek	Anbor An bolek Anbole Anbor Anborek Anborek Anborek Anborek	notek

6.2 oten	Protection of equipment users from overvoltages on telecommunication networks	Ntek
6.2.1 otex	Separation requirements	Ann N de
6.2.2	Electric strength test procedure	N
6.2.2.1	Impulse test	N Anb
6.2.2.2	Steady-state test	ote ^K N P
6.2.2.3	Compliance criteria	abo ^{te} N
6.3	Protection of the telecommunication wiring system from overheating	Nek
Anbotek	Max. Output current (A)	Ante
botel	Current limiting method	Anb

7	All A	CONNECTION TO CABLE DISTRIBUTION SYST	EMS	ote ^k N
Pic7	21 Am	General	Not connect to cable distribution system	nboteŇ
7	.2 Anbotek	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	ek Anbotek Anbotek Anbotek	Anbote Anbote
o ⁷	.3 Anbou	Protection of equipment users from overvoltages on the cable distribution system	Anbotek Anbotek Anb	tek N P
7	.4 hotek	Insulation between primary circuits and cable distribution systems	Anbotek Anbotek A	nbote N
7	.4.1 ₀ 0 ^{teh}	General	k abotek Anboto	An N stel
× 7	.4.2	Voltage surge test	ick botek Anboten	N
7	.4.3	Impulse test	oto Ann notek Anbotek	NAnbe

A	ANNEX A, TESTS FOR RESISTANCE TO HEAT	AND FIRE	boteKN
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)	Anbotek Anbotek Anbotek	AnboNK
A.1.1 10000	Samples	otek Anboten Anbo	tody
sk Anbr	Wall thickness (mm):	otek Anbotek Anbot	priv.
A.1.2	Conditioning of samples; temperature (°C):	nbo tek nbotek Anbo	N Pro
A.1.3	Mounting of samples	Anbo ek sotek Al	N ^N
A.1.4	Test flame (see IEC 60695-11-3)	Anboth And hotek	Anboth
Anboth	Flame A, B, C or D:	Anboren Anno stek	nuotek

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. Otok	IEC 60950-1	A'' aboten	AND
Clause	Requirement – Test	Result - Remark	Verdict
A.1.5	Test procedure	tek Anbore Anu	Nnbot
VUP0	hole hole	hotek Anboten Anbo	No. 1
A.1.6	Compliance criteria	no otek Anbotek Anbo	N Pr
otek .	Sample 1 burning time (s)	Anbo h. abotek An	DOLO.
upo.	Sample 2 burning time (s):	Anbor An botek	Anboten
Anbor	Sample 3 burning time (s)	Anbote Ant	Anbotek
A.2 Anbotek	Flammability test for fire enclosures of movable econot exceeding 18 kg, and for material and componenclosures (see 4.7.3.2 and 4.7.3.4)		A"N Anbot
A.2.1	Samples, material::	bot ek botek Anbot	- Pu
rek bu	Wall thickness (mm):	Anbor Antotek Ant	oter _
A.2.2	Conditioning of samples; temperature (°C):	Anboton Anno otek	nboten
A.2.3	Mounting of samples:	Anboter Anbo	Nek
A.2.4	Test flame (see IEC 60695-11-4)	ek Anbotek Anbou	N
hbote	Flame A, B or C:	tek abotek Anbots	Pro
A.2.5	Test procedure	por An potek Anbote	N AG
A.2.6	Compliance criteria	Anbour Ant hotek Ant	N N
pot P	Sample 1 burning time (s):	Anbote Anto stek	nbotek
Anboton	Sample 2 burning time (s)	Anboten Anbo	abotek
Anbotet	Sample 3 burning time (s):	ek anbotek Anbou	ote
A.2.7 And the second	Alternative test acc. To IEC 60695-11-5, cl. 5 and 9	otek Anbotek Anbote	N Anb
e. Ano	Sample 1 burning time (s):	unboten Anbo Lek po	otek - I
poter A	Sample 2 burning time (s):	abotek Anbot An	wotek-
nbotek	Sample 3 burning time (s):	potek Anbote A	nt atek
A.3 Jotek	Hot flaming oil test (see 4.6.2)	k hotek anboten	AnDN
A.3.1	Mounting of samples	Ann otek anbotek	PN
A.3.2	Test procedure	oten Anboutek abotel	NAND
A.3.3	Compliance criterion	nboten Anbo ok ho	Ket N P
poten Ar	too Anotek Anbote Ano	nbotek Anbour An	Lotek
Bnbotek Anbotek	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	CONDITIONS (see 4.7.2.2 and	Anbotek
B.1 ^{nb0}	General requirements	Anbour An hotek	Note
Anbor	Position:	Inside enclosure	np
k Anbol	Manufacturer	(see appended table 1.5.1)	ek
otek An	Type:	(see appended table 1.5.1)	- ak
otek	Rated values:	(see appended table 1.5.1)	por
B.2	Test conditions	Anbo tek potek	Anbol
B.3	Maximum temperatures	Anbor Andresk	Noter

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nbor	IEC 60950-1	Anbote Ann otek	
Clause	Requirement – Test	Result - Remark	Verdict
poten	Anbor And And And	tek shotek Anbo	- par
B.4	Running overload test	An wotek anboten	Nnbo
B.5	Locked-rotor overload test	bote And otek anbot	N N
And And	Test duration (days)	Anboten Anbo tek	otek
nboten P	Electric strength test: test voltage (V):	Anbotek Anbot At	notek
B.6 oten	Running overload test for d.c. motors in secondary circuits	Anbotek Anbotek	Anbotek
B.6.1	General	Jek Anbor An hotek	Nibot
B.6.2 M	Test procedure	botek Anboto Ant	K N
B.6.3	Alternative test procedure	hotek Anbote Anb	.ev N
B.6.4	Electric strength test; test voltage (V):	An Antotek Anbotek Ant	N
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	Anbotek Anbotek	nbot N
B.7.1	General	tek Anbotek Anbo	N
B.7.2 mbote	Test procedure	tek nbotek Anbots	N
B.7.3	Alternative test procedure	bor An botek Anbote	N PO
B.7.4	Electric strength test; test voltage (V):	Anbott Ant wotek Ant	N N
B.8	Test for motors with capacitors	(see appended table 5.3)	aboteN
B.9	Test for three-phase motors	(see appended table 5.3)	Nek
B.10	Test for series motors	ek Anbotek Anbote	N
botek	Operating voltage (V):	ick botek Anboten	Pun

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3	3) ^{boo} K hatek Anb	PP
pot pr	Position:	Anboren Anno otek	hotek-
Anboto	Manufacturer:	(see appended table 1.5.1)	nbotek
Anboten	Туре	(see appended table 1.5.1)	-botek
Anbotek	Rated values:	(see appended table 1.5.1)	P
ek nbot	Method of protection:	Inherent Market	Anu
C.1	Overload test	(see appended table 5.3)	P P
C.2	Insulation	(see appended tables 5.2 and C2)	ibote ^R P
Anbotek	Protection from displacement of windings:	(By bobbin, triple insulation wire and insulation tape)	Anbole

(see 5.1.4)	STS
Measuring instrument	And Lek P
Alternative measuring instrument	otek Arbor N
_	Measuring instrument

Ebu

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

NOV



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Anbors	An hotek Anboten	IEC 60950-1	Anbote And And	Anbotek
Clause	Requirement – Test	Anbo An hote	Result - Remark	Verdict

F Anb	ANNEX F, MEASUREMENT OF CLEARANCES A (see 2.10 and Annex G)	ND CREEPAGE DISTANCES	P
*ek	aboter Anton K notek Anbote	Am tok abotek An	por v
G	ANNEX G, ALTERNATIVE METHOD FOR DETER CLEARANCES	RMINING MINIMUM	Anbot N
G.1 "botek	Clearances	ok hotek Anbote	N
G.1.1	General	k sotek Anboten	N
G.1.2	Summary of the procedure for determining minimum clearances	botek Anbotek Anbote	N N A
G.2	Determination of mains transient voltage (V)	An wotek Anboten Ant	N
G.2.1	AC mains supply	And tek nbotek	N N
G.2.2	Earthed d.c. mains supplies	Anbor Ak botek	ANN
G.2.3	Unearthed d.c. mains supplies:	W WO' DA'	Noo
G.2.4 March 600	Battery operation:	potek Anbote Am	N
G.3	Determination of telecommunication network transient voltage (V)	Anbotek Anbotek Anb	_{otek} N
G.4	Determination of required withstand voltage (V)	Anbots Am	nboten
G.4.1	Mains transients and internal repetitive peaks:	Anboten Anbo	Nek
G.4.2	Transients from telecommunication networks:	ek unbotek Anbo	N
G.4.3 bottom	Combination of transients	stek abotek Anbote	N
G.4.4	Transients from cable distribution systems	os An botek Anbote	N
G.5	Measurement of transient voltages (V)	Anbour Ann hotek Anb	N
Por h	a) Transients from a mains supply	Anboth Annotek	nbote N
Anbote	For an a.c. mains supply	Anboten Anbo	Nek
Anboten	For a d.c. mains supply	ek Anbotek Anbos	Not
Anbotek	b) Transients from a telecommunication network	stek sabotek Anbot	N
G.6	Determination of minimum clearances:	tek abotek Anbota	N
eck p	botek Anbore And otek Anborek	Anbor An hotek Anbo	ofer.
H Pr	ANNEX H, IONIZING RADIATION (see 4.3.13)	Anboto K Ant otek	bote ^k N
Inpote	Anno stek Anbotek Anbot An notek	Anboten Anbo	abotek
Anboten	ANNEX J, TABLE OF ELECTROCHEMICAL POT	ENTIALS (see 2.6.5.6)	Note
Anbotek	Metal(s) used:	tek abotek Anboto	Pres
6 abot	ek Anbote Ann atek Anbotek Anb	werk whotek Anboten	Ant
к	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	15.3.8)	^{ek} N
K.1 An	Making and breaking capacity	No thermostat and temperatrue limiter used for thermal control circuit	pote ^K N
K.2	Thermostat reliability; operating voltage (V):	del Astron	Ant Note



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ins ink	IEC 60950-1	Anboy A. A. Watek	Anboten
Clause	Requirement – Test	Result - Remark	Verdict
K.3 Anbotel	Thermostat endurance test; operating voltage	hotek Anbotek Anbotek	Nabo
K.4	Temperature limiter endurance; operating voltage (V)	Anbotek Anbotek Anbo	otek N
K.5	Thermal cut-out reliability	Anboten Anna otek	nbotN
K.6	Stability of operation	Anboten Anbo	Ntek
Anboter	And tek potek Andors Ann	tek unbotek Anbo	not
L Anbotek	ANNEX L, NORMAL LOAD CONDITIONS FOR S BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	OME TYPES OF ELECTRICAL	K N An
L.1 Anot	Typewriters	Anborek Anbor An	ote ^k N
L.2 N	Adding machines and cash registers	Anbotek Anbou Ah	N
L.3 oten	Erasers	abotek Anboter	Net
L.4 abotek	Pencil sharpeners	ek abotek Anboten	Ann
L.5 botek	Duplicators and copy machines	Ant hotek Anbotek	N
L.6	Motor-operated files	poter Ann otek Anbote	N Ant
L.7	Other business equipment	Anboten Anbo tek	otek N
M.1.,poten	Introduction	ek abotek Anboten k	N ste
M	ANNEX M, CRITERIA FOR TELEPHONE RINGIN	G SIGNALS (See 2.3.1)	AnbNek
M.2 Model	Method A	tek abotek Anbote	N
M.3	Method B	bor An abotek Anbote	NAM
M.3.1	Ringing signal	Anbour Ann hotek And	N
M.3.1.1	Frequency (Hz):	Anbota Am	npoten
M.3.1.2	Voltage (V):	Anbore Ann atek	anbetek
M.3.1.3	Cadence; time (s), voltage (V):	ek Anboten Anbo	nbote
M.3.1.4	Single fault current (mA):	otek Anboten Anbo	
M.3.2 Mod	Tripping device and monitoring voltage:	otek Anbotek Anbo	N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	Anbotek Anbotek Anb	hotel N
M.3.2.2	Tripping device	Anbotek Anbos A	NX
M.3.2.3	Monitoring voltage (V):	k Anbotek Anbors	Noter
Anbotek	Anbor An hotek Anboren Anbor	tek abotek Anbote	Ann
N Anbote	ANNEX N, IMPULSE TEST GENERATORS (see 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	1.5.7.2, 1.5.7.3, 2.10.3.9,	N ^{AMD}
N.1 Ant	ITU-T impulse test generators	nbotek Anbote Ann	oteKN
		10.7	



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upor k	Ann Lotek Anbotek Anbo IEC	C 60950-1	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
P Anbote	ANNEX P, NORMATIVE REFEREN	CES Manager Annothing Annothing	tek Aupo
Aupo	otek anbotek Anbote An	hotek Anbolek Anbole Ant	botek Ar
Q	ANNEX Q, Voltage dependent resis	tors (VDRs) (see 1.5.9.1)	bote ^K N
-xe*-	NOT THE WAY I HOVE	And the poll	Par

	- Preferred climatic categories:	Considered	N
Anbotek	- Maximum continuous voltage	Anbotek Anbot	Ntek
Anbotek	Body of the VDR Test according to IEC60695-11- 5	ek Anbotek Anbotek	Anbotek
Anbos ak Anbos	Body of the VDR. Flammability class of material (min V-1)	botek Anbotek Anbote	K N Anbo

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	Anboten botek
R.1 Anboten	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	Anbotek
R.2 MAD	Reduced clearances (see 2.10.3)	K N Anbe

Stek A	ANNEX S, PROCEDURE FOR IMPULSE TESTING	(see 6.2.2.3)	N
S.1	Test equipment	Anbotek Anboten A	Nek
S.2	Test procedure	Am hotek Anboten	Anbo
S.3	Examples of waveforms during impulse testing	And	N

0	T AND	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATE	RP
	Lotek Ant	(see 1.1.2)	Ann

Unbanbo	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)				AnbN		
6	boten	Anbo	hotek	Anbote	And	(see appended table 1.5.1)	P.r.

V	ANNEX V, AC POWER DISTRIBUTION	SYSTEM	S (see 1.6.1)		pore. P
V.1	Introduction	nbotek	Anboth	Annotek	hoter P
V.2	TN power distribution systems	abotek	Anbore	Am	Anb Per

W Anbore	ANNEX W, SUMMATION OF TOUCH CURRENTS	Stek Anbote, And atek	N
W.1 Anbote	Touch current from electronic circuits	hotek Anboten Anbo	N N
W.1.1	Floating circuits	and sotek Anbotek Anbo	N
W.1.2	Earthed circuits	And stek anbotek An	N.
W.2	Interconnection of several equipments	Anbo tek potek	Anbole
W.2.1	Isolation	Anbo tek sbotek	NOVO



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	IEC 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anboten	And set abotek Anboth And	tek habotek Anbor	pu:
W.2.2	Common return, isolated from earth	tok spotek Anbote	N
W.2.3	Common return, connected to protective earth	ibou Ant sotek Anbot	N P
K ^{oto}	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)	Anbotek Anbotek	Anbot P
X.1 "otek	Determination of maximum input current	An otek Anbotek	AnP
X.2	Overload test procedure	And atek nbotek	B upo
Anbe	tek spotek Anbour Antiotek An	boten Anbos rek aboth	K AL
Y And	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING	G TEST (see 4.3.13.3)	o ^{tek} N
(:1 ^{°*} P	Test apparatus	nbotek Anbots An	N
(.2	Mounting of test samples	abotek Anbota	Nex
1.3 abotek	Carbon-arc light-exposure apparatus:	ek sootek Anboten	N
Y.4	Xenon-arc light exposure apparatus:	An hotek Anboten	N
N N	itek Anboten Anbo tek subotek An	pote And otek Anbote	P.C
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2	.10.3.2 and Clause G.2)	^{etek} P
oten A	ntek npotek Anbete Ant	Anborek Anbos Air	abotek
AA O	ANNEX AA, MANDREL TEST (see 2.10.5.8)	Anborek Anborr	N ^{eK}
Anbotek	Anbor An hotek Anboten Anno	ak nbotek Anbote	hor not
BB mboten	ANNEX BB, CHANGES IN THE SECOND EDITIO	N.ek abotek Anbote	Pup
K abo	tek Anbotek Anbotek An	port All hotek Anbote	Pu
CC	ANNEX CC, Evaluation of integrated circuit (IC) cu	urrent limiters	N
CC.1	General	Anboten And Atek	vb ^{otek} N
CC.2	Test program 1	Anboron Anbo ek	nbotek
No.	Test program 2:	Ket about	Not

DD hote	ANNEX DD, Requirements for the mounting means of rack-mounted equipment	N
DD.1	General	N A
DD.2	Mechanical strength test, variable N	ootenN
DD.3	Mechanical strength test, 250N, including end stops	AnboNK
DD.4	Compliance	۳N

EE Anu	ANNEX EE, Household and home/office document/media shredders			
EE.1	General	NoteK N		
EE.2	Markings and instructions	N		
botek	Use of markings or symbols	AND N .ek		



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nbor	IEC 60950-1	Anbore And And	
Clause	Requirement – Test	Result - Remark	Verdict
abote	And K sotek Anbor An	tok poten Anbo	
	Information of user instructions, maintenance and/or servicing instructions	potek Anbotek Anbotek	N
EĔ.3 pm	Inadvertent reactivation test:	botek Anbote And	tek N
EE.4	Disconnection of power to hazardous moving parts	Anbotek Anboten Ant	N
Anboro	Use of markings or symbols	Anbote, And Atek	Ncek
EE.5.	Protection against hazardous moving parts	lek Anboten Anbo	N
Anbote	Test with test finger (Figure 2A)	otek Anbotek Anbot	N
tek As	Test with wedge probe (Figure EE1 and EE2):	pt hotek Anbols	N ^N

otek

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unbote.	And otek Anbotek	EN 60950-1	Anboten Anbo	nbotek
Clause	Requirement – Test	Anbort An	Result - Remark	Verdict

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

Information technology equipment - Safety -

Part 1: General requirements

Differences according to.....: IEC 60950-1:2005+A1:2009+A2:2013

Attachment Form No..... EU_GD_IEC60950_1E

Master Attachment..... Date 2013-09

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IEC 60950-1:2005+A1:2009+A2:2013

Anbo	IEC 60950-1, GR	OUP DIFFEREN	NCES (CENELEC	common mo	difications EN)	ek a
Clause	Requirement + 1	est		Result - Rem	ark	Verdict
potek Ar	Clauses, subclau IEC60950-1 and		es and figures whic are prefixed "Z"	h are additiona	al to those in	hotek
Contents	Add the followin	g annexes:	Annatek	anboten	And	Anbolek
	Annex ZA (norm	•	Normative refere	ences to intern	ational	Anu
	hotek	Anboa An			onding European	Anbor
	Ant		publications		riang European	× · ·
	Annex ZB (norm		Special national	conditions		An'
			· ·		np-	Notek
	Annex ZD (infor	nauve)	IEC and CENEL		gnations for	No.K
(A2:2013)	botek Anbo		flexible cords			Anbote.
General	Delete all the "co according to the		the reference docu	iment (IEC 609	950-1:2005)	Anberek
	1.4.8 Note 2	Anbolt 1.5.1 An	Note 2 & 3	3 1.5.7.1	Note	Anbote
	1.5.8 Note 2	1.5.9.4	Note	1.7.2.1		v r
	2.2.3 Note	2.2.4	Note	2.3.2	Note noot	S. Ani
	2.3.2.1 Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	dek.
	2.7.1 Note	2.10.3.2		* C ***	3 Note 3	p~
	3.2.1.1 Note	3.2.4	Note 3.	2.5.1	Note 2	boten
	4.3.6 Note 1 8		Note 4	4.7.2.2	Note	Allek
	4.7.3.1 Note 2	5.1.7.1	Note 3 & 4		Note 1	Anbo
	6 Note 2 8 6.2.2 Note	& 5 6.1.2.1 6.2.2.1	Note 2 Note 2	6.1.2.2 6.2.2.2	Note Note	abote
	7.1 Note 3	7.2	Note 2	7.3	Note 1 & 2	Pri.
	G.2.1 Note 3	Annex H		oto Anb	HOLE I G Z	Anb
General (A1:2010)	pc ¹	ountry" notes in t	the reference docu	iment (IEC 60	950-	ole* P
	1.5.7.1 Note	6.1.2.1	-			poter
	6.2.2.1 Note 2	etek EE.3	Note			Alek

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Clause	Requirement -	- Test		Resu	lt - Remark	Ve	erdict
botek	Anbor	printek	anboten	INDO K	potek Ant	poto P	Q.Y.
General	Delete all the f	"aguinter" agtog	in the reference	dequiment	(IEC 60050	18K	Pop.
	Delete all the ' 1:2005/A2:201		the following li		(IEC 00950-	Anbo	-per-
(A2:2013)		13) according to		st: nbotek		Anbotek Anbotek	P

.1.1 A1:2010)	Replace the text of NOTE 3 by the following. NOTE 3 The requirements of EN 60065 may also be used to m equipment. See IEC Guide 112, Guide on the safety of multime 60065 applies.	eet safety requirements for multimedia dia equipment. For television sets EN	Anbotel
.3.Z1	Add the following subclause:	hotek Anbote, And	N N
	1.3.Z1 Exposure to excessive sound pressure	And sk botek Ant	or p
	The apparatus shall be so designed and	Anbore Ant tek	abotek
	constructed as to present no danger when used	abotek Anbot	AT. Stek
	for its intended purpose, either in normal	All tek suboten	Anbo
	operating conditions or under fault conditions,	ek Anbor Air otek	Anbote.
	particularly providing protection against exposure to excessive sound pressures from headphones	tek aboten Anbo	h
	or earphones.	por An otek Anbote	And
	NOTE Z1 A new method of measurement is described	nboten Anbo nk	otek Ar
	in EN 50332-1, Sound system equipment:	hotek Anbote Anu	*eK
	Headphones and earphones associated with portable audio equipment - Maximum sound pressure level	And wak wotek A	nbolt
	measurement methodology and limit considerations -	Anbore Ant tek	abotek
	Part 1: General method for "one package equipment",	K botek Anbou	All
	and in EN 50332-2, Sound system equipment:	And tek abotek	Anbo
	Headphones and earphones associated with portable audio equipment - Maximum sound pressure level	otek Anbor An	, nbot
	measurement methodology and limit considerations -	tek nbotek Anbo	y.
	Part 2: Guidelines to associate sets with headphones	Anbor An otek Anbr	pter An
(A12:2011)	coming from different manufacturers.	anboten Anbo h	NotoN
hotek	In EN 60950-1:2006/A12:2011	A. sotek Anbote. A	nu
	Delete the addition of 1.3.Z1 / EN 60950-1:2006	And wak botek	Anbore
	Delete the definition of 1.2.3.Z1 / EN 60950- 1:2006/A1:2010	K Anbote Ant tok	abotek
1.5.1 model	Pur tek those Pri	rek abotek Anbor	N
1.0.1 p	Add the following NOTE:	or An otek Anboten	Anbe
	NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU:	nboten Anbo h	tek An
otek Ant	see Directive 2002/95/EC	hotek Anbote Anb	rek
(Added info*)	New Directive 2011/65/11 *	Ann lok potek Al	por
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM,	Anbore Ant tek	NK
(71.2010)	the instructions shall include a warning that excessive sound pressure from earphones and	K abotek Anbor	A
	headphones can cause hearing loss.	All otek subotek	Anbo
1.7.2.1	In EN 60950-1:2006/A12:2011	sten Anothe A sotek	Nnbot
(A12:2011)	Delete NOTE Z1 and the addition for Portable	otek Anboten Anbo	alt u
	Sound System.	nbo h notek Anbo	Ani
	Add the following clause and annex to the	Anboten Anbo	notek
	existing standard and amendments.	hotek Anbote Ar	1 Not
	Zx Protection against excessive sound pressure	re from personal music	Anbor
	players		wotek.

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botet	Requirement – Test	Result - Remark	
	Anboto Anno stek anbotek Anbot	ak hotek Anboter	PUP
An	Zx.1 General	de Ant tek abotek	Nabe
	This sub-clause specifies requirements for	hotek Anbore An	Ng.
	protection against excessive sound pressure from	anbo hotek Anbo	P
	personal music players that are closely coupled	Anbote And Lok	botek
	to the ear. It also specifies requirements for	hotek Anbote Ar	York
	earphones and headphones intended for use with	And set botek	Aupora
	personal music players.	anbote Ant tok	botek
	A personal music player is a portable equipment	ok hotek Anbort	Pur
	for personal use, that:	And And And And	Anbo
	is designed to allow the user to listen to recorded	otek Anbote Ant	e K
	or broadcast sound or video; and primarily users	ripe k notek Anbol	P
	headphones or earphones that can be worn in or	Anboten Anbo	hotek
	on or around the ear; and allows the user to walk around while in use.	A. Anboten An	N. N.
	Ker app	Anbo K. Matek	anbote.
	NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile	anboten Anbo	wotek
	phones with MP3 type features, PDA's or similar	k ntek nboten	Anu
	equipment.	ster Anbour An atek	anbo
	A personal music player and earphones or	stek spoten Anbo	Pre-
	headphones intended to be used with personal	noot All stek spot	se Ar
	music players shall comply with the requirements	botek Anbor An	Xek.
	of this sub-clause.	Ant tek botek An	por
	The requirements in this sub-clause are valid for	Anbort Ann tek	aboten
	musci or video mode only.	botek Anbou	p.n.
	The requirements do not apply:	And tek abotek	Anbo
	while the personal music player is connected to	tek Anbore Ant tek	abot
	an external amplifier; or	ok botek Anbou	Pri
	while the headphone or earphones are not used.	poto Ant lok both	sh An
	NOTE 2 An external amplifier is an amplifier which is	hotek Anbort An	4ex
	not part of the personal music player or the listening	And botek Ant	
	device, but which is intended to play the music as a	Anbore Ant	botek
	standalone music player.	botek Anbore	Ant
	The requirements do not apply to:	And k hotek	Anbort
	hearing aid equipment and professional	ek Anbote Anu	not
	equipment;	K sotek Anbote	Ann
	NOTE 3 Professional equipment is equipment sold through special sale s channels. All products sold	tote And ak note	K An
	through normal electronics stores are considered not to	botek Anbote And	.ek
	professional equipment.	knu ok sotek and	C.
	analogue personal music players (personal music	Anboter Anbo	botek
	players without any kind of digital processing of	hotek Anbote A	John Jok
	the sound signal) that are brought to the market	And K wotek	Anbolt
Anbore	before the end of 2015.	ex anboten Anbo	not
notek	NOTE 4 This exemption has been allowed because	k notek papote	۳Ň
	this technology is falling out of use and it is expected	poten Anbo k sote	A ant
	that within a few years it will no longer exist. This	stek suboten Anbo	N.
	exemption will not be extended to other technologies.	Anboy Antok nob	D'er.
	For equipment which is clearly designed or	aboten Anbot An	dek
	intended for use by young children, the limits of	All tek stotek A	100
100 P	EN 71-1 apply.	Anbor An	apoten
	Zx.2 Equipment requirements No safety provision is required for equipment that	the motek Anbour	Ant N

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+ Q.Y.	EN 60950-1	All woter	Aupor
Clause	Requirement – Test	Result - Remark	Verdict
anboter.	And ak notek Anbort An	ok botek Anbo	p.
	complies with the following:	bot Att tek aboter	Anb
	equipment provided as a package (personal	Lotek Anbor Am	- Mar
	music player with its listening device), where the	And whitek Anbo	be be
	acoustic output $L_{Aeq,T}$, is ≤ 85 dBA measured	aboten Anbo	ateK.
	while playing the fixed "programme simulation	All boten A	100
	noise" as described in EN 50332-1; and a	Anbore Ant Lok	hotek
	personal music player provided with an analogue	h otek Anbote	Ann
	electrical output socket for a listening device,	and Andor A. Stek	nbote
	where the electrical output is ≤ 27 mV measured	ok botek Anbo	pro
	as described in EN 50332-2, while playing the	pote Ant ok botek	Anbo
	fixed "programme simulation noise" as described	stek abote And	¥6
	in EN 50332-1.	Albor All tek abo	Len An
	NOTE 1 Wherever the term acoustic acoustic output is	s sotek Anbor An	LeK.
	used in this clause, the 30 s A-weighted equipment	And K sotek Ar	10010
	sound pressure level LAeq,T, is meant.	aboten Anbo	otek
	See also Zx.5 and Annex Zx.	All tek boten	Anbo
	All other equipment shall:	K NUPOLC ANT AK	hotek
	a) protect the user from unintentional acoustic	h stek subote	And
	outputs exceeding those mentioned above; and	ofen Anbo A. tek	npott
	b) have a standard acoustic output level not	ok botek Anbo	Pri
	exceeding those mentioned above, and	poter And k bot	ek ant
ek npo	automatically return to an output level not	tek poten Anbo	14
	exceeding those mentioned above when the	Anbor An Lek	opter
	power is switched off; and	otek Anbor An	Yar
	c) provide a means to actively inform the user of	Anbo	nbore
	the increased sound pressure when the	K boten Anbo	H. Sek
	equipment is operated with an acoustic output	And sk hotek	Anbo
	exceeding those mentioned above. Any means	tek nbote. And	~ ote
	used shall be acknowledged by the user before	o. Al. tek poter	Ano
	activating a mode of operation which allows for	Jotek Anbor An	1
		in stek unbor	An
	an acoustic output exceeding those mentioned	aboten And	atek .
Y91	above. The acknowledgement does not need to	Ambo tek abotek Ant	
	be repeated more than once every 20 h of	Anbors Am	boten
	cumulative listening time; and	htek pote	PULL
	NOTE 2 Examples of means include visual or audible	Anbo A. tek	nbote.
	signals. Action from the user is always required.	k botek Anbor	P
	NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long th	And K hotek	Anbor
	personal music player has been switched off.	otek Anboten Anbo	
	d) have a warning as specified in Zx.3; and	nbor An tek abote	Aup
	e) not exceed the following:	notek Anbor An	-at
	1) equipment provided as a package (player with	Indo	polo P
	Its listening device), the acoustic output shall be		dek.
	30.	- An hotek	ANDO-
	100 dBA measured while playing the fixed	And And	notek
	"programme simulation noise" described in EN	Ar sek aboter	And
	50332-1; and	tek anbor An Lek	bote
	2) a personal music player provided with an	K botek Anboto	Pur
	analogue electrical output socket for a listening	applet And the ste	K nbr
	device, the electrical output shall be $\leq 150 \text{ mV}$	tek boten Anbo	le per
	measured as described in EN 50332-2, while	Anbore Ana Ak	olen A
	playing the fixed "programme simulation noise"	tek aboten Anb	V
	described in EN 50332-1.	Anbor An Lok	poter
	For music where the average sound pressure	notek Anborn P	No.
	(long term $L_{Aeq,T}$) measured over the duration of	Anbe	npoto
	the song is lower than the average produced by	al abotek Anbo	P. tek
	the programme simulation noise, the warning	Le NAM	-001

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lause	Requirement – Test	Result - Remark	Verdic
hotek	Anbote Anb tek stotek Anb	tote Alter atek Anbote	k bube
Ano	does not need to be given as long as the avera	ae	otek Anb
	sound pressure of the song is below the basic	tek aboten Anb	N.
	limit of 85 dBA. In this case T becomes the	NIDOL AM AK	boten P
	duration of the song.	tek photo P	In K
	NOTE 4 Classical music typically has an average	Anboy An tek	npoter
	sound pressure (long term $L_{Aeq,T}$) which is much lower	er sotek Anbor	AI.
	than the average programme simulation noise.	Anbo	nbore
	Therefore, if the player is capable to analyse the son	Idek boten Anbo	A.
	and compare it with the programme simulation noise		Anbo
	the warning does not need to be given as long as the		X
	average sound pressure of the song is below the bas		pter And
	limit of 85 dBA.	stek subore Ant	N.
	For example, if the player is set with the programme	Aribo A. Hek	poter P
	simulation noise to 85 dBA, but the average music	Lotek Anbor A	Lek.
	level of the song is only 65 dBA, there is no need to	And	ntore
	give a warning or ask an acknowledgement as long a	as hoten Anbo	hetek
	the average sound level of the song is not above the		Aupo
	basic limit of 85 dBA.	tek abote, And	otek
Nor.	Zx.3 Warning	Part abote	P.O.N
	The warning shall be placed on the equipment,	ordek Anbore Ane	at no
	on the packaging, or in the instruction manual	nuo h. stek nbo	AUT BUR
	and shall consist of the following:	potek Anbor Air	eet-
		f E v stek	por A
	the symbol of Figure 1 with a minimum height of	DI D shoten Anbo	Mar
	mm; and the following wording, or similar:	Ann K hotek	Anbo
	"To prevent possible hearing damage, do not	abote, And	otek
	listen at high volume levels for long periods."	All boten	Aupo
	All Lok	tek subore And	hotek
	Anboic Anbo	A. tek abote.	And
	here A	wotek Anbor An	.vo
	Anbox At	nbo stek nbo	Ann
		Noten Anbo A.	101
		An K Lotek Ar	po. P.
		abote. And	tek
	and the production of the prod	All solen	Anbolt
	test / U stat	Anto Anto	Loten
	Anbo	h. stek abote	Ann
		lek Anbor An	boten
	Figure 1 – Warning label (IEC 60417-6044)	otek anbolo	Pur
	Alternatively, the entire warning may be given	hoten Anbo h.	ek npo
	through the equipment display during use, whe		Pres
	the user is asked to acknowledge activation of the	the other Anthe	otek An
npo	higher level.	rek aboter An	Y Y
1	Zx.4 Requirements for listening devices (her	adphones and earphones)	aboter
ten al	Zx.4.1 Wired listening devices with analogue		N
	input	And	hoto
	With 94 dBA sound pressure output $L_{Aeq,T}$, the	K potek Anbou	P. Lok
		Anu y otek	Anbor
	input voltage of the fixed "programme simulatio		Y
	noise" described in EN 50332-2 shall be \ge 75 m		anbo,
	This requirement is applicable in any mode whe		
	the headphones can operate (active or passive		oter An
	including any available setting (for example buil	It- stek subote Am	N.
	in volume level control).	pinbo pin kek	abole
	by per tek aboten Ano	wotek Anbor	All
	NOTE The values of 94 dBA – 75 mV correspond with	And	a pote
poter	85dBA – 27 mV and 100 dBA – 150 mV.	K botek Anbor	P. B.K
-V	Zx.4.2 Wired listening devices with digital	And	Nodin
	input	al poten Anbu	P
		ALL	NO.

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lauga	Dequirement Test	Deput Demort	Vordi-1
lause	Requirement – Test	Result - Remark	Verdict
Aupor	"programme simulation noise" described in EN	diek Anbore An-	200
	50332-1 (and respecting the digital interface	k sotek Anbor	Pri
		aboten Anbo	KBK D
	standards, where a digital interface standard	lek boten Anbe	
	exists that specifies the equivalent acoustic level),	Anbore Ant ok	hotek
	the acoustic output $L_{Aeq,T}$ of the listening device	her nbote A	X
	shall be $\leq 100 \text{ dBA}$.	Anboy A. tek	npoter
	This requirement is applicable in any mode where	hotek Anbo	rel
	the headphones can operate, including any	And lok botek	Anbo
	available setting (for example built-in volume level		
	control, additional sound feature like equalization,	A. tek spote.	Anu
	etc.).	Lotek Anbor An	alt-
	of ak Anbor An tek aboten A	notek nhbo	P
	NOTE An example of a wired listening device with digital input	aboten Anbo	otek
KCX-	is a USB headphone.	All boten As	N
	Zx.4.3 Wireless listening devices	Anbour Ann ok	oboteN
	In wireless mode:	otek Anbore	Lon K
	with any playing and transmitting device playing	Anbo	nbote
	the fixed programme simulation noise described	ok botek Anbo	p.
	in EN 50332-1; and	Ant Anthotek	Anbo
	respecting the wireless transmission standards,	stek subote And	16
	where an air interface standard exists that	hoo An tek abot	P.
	specifies the equivalent acoustic level; and with	hotek Anbor An	Nek.
	volume and sound settings in the listening device	And K sotek An	p ^D ^L
	(for example built-in volume level control,	aboten Anbe	otek
	additional sound feature like equalization, etc.)	All boten	Aupo
	set to the combination of positions that maximize	Anbort Anthony	boten
	the measured acoustic output for the	otek anbote	Ann
	abovementioned programme simulation noise,	ten Anbo Ar tek	nbot
	the acoustic output LAeq,T of the listening device	ok botek Anbo	Pre
	shall be \leq 100 dBA. NOTE An example of a wireless	pote And ak hot	sh An
anbo	listening device is a Bluetooth headphone.	tek nbote And	14
	Zx.5 Measurement methods	Anbour A. hotek Ant	N
	Measurements shall be made in accordance with	hotek Anbor Ar	Kek
	EN 50332-1 or EN 50332-2 as applicable.	And K botek	Dupor.
	Unless stated otherwise, the time interval T shall	aboten And	otek
	be 30 s.	All tek boten	Anbe
	An tek aboten And	ek anbor Ann jek	"od
	NOTE Test method for wireless equipment provided without	K sotek Anbore	Aur
And	listening device should be defined.	oten Anbo h	V. A
7.1 pot	Replace the subclause as follows:	lek boten Anbo	Р
	Basic requirements	anbotto Anti-	der
		atek Anbote An	X
	To protect against excessive current, short-	Anbo	hote
	circuits and earth faults in PRIMARY CIRCUITS,	hotek Anbo	*eK
	protective devices shall be included either as	And	Anbo
	integral parts of the equipment or as parts of the	ak nbote. And	- OV
	building installation, subject to the following, a), b)	p. tek aboten	AUD
	and c):	ptek Anbor An	6
	a) except as detailed in b) and c), protective	K sotek Anbore	Pu
	devices necessary to comply with the	aboten And	lek
	requirements of 5.3 shall be included as parts of	por boten Anb	
	the equipment;	Anbole Ant	potek
	b) for components in series with the mains input	ntek sabote P	SED V
	to the equipment such as the supply cord,	Anbo- An tek	aboter
	appliance coupler, r.f.i. filter and switch, short-	k notek Anbort	P
	appliance coupler, I.I.I. IIIter and SWIICH, Shoft-	A THE A	100 ¹⁰

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100 P	EN 60950-1	Anbor An	appoten
Clause	Requirement – Test	Result - Remark	Verdict
aboten	Anbo K sotek Anbote Ano	ok botek Anbo	bu.
An	by protective devices in the building installation;	Ant tek spotek	Anbo
Anbo	c) it is permitted for PLUGGABLE EQUIPMENT	potek Anbor An	× P
	TYPE B or PERMANENTLY CONNECTED	stek suboten Anbo	r K
	EQUIPMENT, to rely on dedicated overcurrent	Anbor An otek An	oter
	and short-circuit protection in the building	nboten Anbo A	-otek
	installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in	An otek Anboten	And
	the installation instructions.	Anbo K hotek	Anboro
	If reliance is placed on protection in the building	lek unboter And	-100
	installation, the installation instructions shall so	K hotek Anboro	Aur
	state, except that for PLUGGABLE EQUIPMENT	poter And ak pot	K A
	TYPE A the building installation shall be regarded	hotek Anbote Ant	Lek.
	as providing protection in accordance with the	And ak botek Ant	01-
7.0	rating of the wall socket outlet.	Anbore Ant	Lnbotek
.7.2	This subclause has been declared 'void'.	potek Anbot	Ne ^K
.2.3	Delete the NOTE in Table 3A, and delete also in	Am otek anboten	PUL
And	this table the conduit sizes in parentheses.	er Anbo A. atek	onbo
2.5.1	Replace "60245 IEC 53" by "H05 RR-F";	otek Anboten Anbe	N
	"60227 IEC 52" by "H03 VV-F or	po h. "otek Anbote	PL
	H03 VVH2-F";	Anboten Anbo	otek
	"60227 IEC 53" by "H05 VV-F or H05 VVH2-F2".	hotek Anbote Ant	No.K
	Not Not	And sek botek	nbor
	In Table 3B, replace the first four lines by the following:	Anboto Ant tek	botek
	Up to and including 6 $[0,75^{a}]$	K botek Anbort	All
	Over 6 up to and including $10 (0,75)^{b} $ 1,0	Ant tek abotek	Anbo
	Over 10 up to and including 16 (1,0) ^{c)} 1,5	otek Anbor Am	-
	In the conditions applicable to Table 3B delete	tek nbotek Anbo	K Pr
	the words "in some countries" in condition ^{a)} .	Anbor An otek Anb	oter
	In NOTE 1, applicable to Table 3B, delete the second	anboten Anbo	Lotek
a stek	sentence.	A. Anboten A	nb NBK
.3.4	In Table 3D, delete the fourth line: conductor	And ok botek	Anb
	sizes for 10 to 13 A, and replace with the following:	K Anbote Ant Lak	100t
	Over 10 up to and including 16 1,5 to 2,5 1,5 to	ok botek Anbor	Pur
		ote Ant tek potek	An
	Delete the fifth line: conductor sizes for 13 to 16 A	abotek Anbos An	tek
3.13.6	and the state	stek suboten Anb.	boteVN
1:2010)	Replace the existing NOTE by the following:	Ando K Lotek A	hote
	NOTE Z1 Attention is drawn to:	Anbote, Anb	botek
	1999/519/EC: Council Recommendation on the limitation of exposure of the general public to	K hotek Anbote	Ann
	electromagnetic fields 0 Hz to 300 GHz, and	Any tek botek	Aupor
	2006/25/EC: Directive on the minimum health and	stek Anbort Ant	al.
	safety requirements regarding the exposure of	tek stotek Anbou	Priv
	workers to risks arising from physical agents	nbor An tek nbo	er
er Ant	(artifical optical radiation).	abotek Anbor An	ateK.
otek .	Standards taking into account mentioned	All stek suboten Al	N N
	Recommendation and Directive which	Anbo, An	Anboten
	demonstrate compliance with the applicable EU	npoten Anbo	h. ote
	Directive are indicated in the OJEC.	A. boten	Ano

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Clause	Requirement – Test	Result - Remark	Verdict
botet	Anbor Anb	ok hotek Anbou	Pro
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shal not exceed 1 μ Sv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.	Anbotek An	Nubo ek potek
Anbotek Anbotek	Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	ek Anbotek Anbotek botek Anbotek Anbotek	Anbore Anbotek Anbo
Bibliography	Additional EN standards.	botek Anbots Ann	×

ZAek

NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS

1.1 ZB ANNEX (normative)

1.2 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.	Anbotek Anbotek Anbotek Anbotek	Anbotek
1.2.13.1	4 In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.	otek Anbotek Anbote	N
1.5.7.1	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.	Anbotek	N ^{AA} nbote ^k Anbote ^k
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).	otek Anbotek Anbotek Anbotek	N Anbotek Anbote
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.	Anbotek Anbotek Anb	tek N An
1.7.2.1	In Finland, Norway and Sweden, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.	Anbotek Anbotek Dtek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek
Anbotek Anbotek	The marking text in the applicable countries shall be as follows: In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	Anbotek Anbotek Ar Anbotek Anbotek	Anbotek Anbotek

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+ eX-	EN 60	NUPP Print wolfer	Aupo
Clause	Requirement – Test	Result - Remark	Verdict
anboter	And hat a south Anbour	Ann dek Anbotek Anbo	- nc
	In Norway : "Apparatet må tilkoples jorde stikkontakt"	et Anbei k sotek Anbei	Anu Anu
	Y ote And	It and at Moten And	hotek A
	In Sweden: "Apparaten skall anslutas til uttag"	li jordat	- ak
	utiag Annota Annota	nboten Anbo	Anbore
	In Nerway and Sweden, the server of t	the ashie Anboten Ano	hotek
	In Norway and Sweden , the screen of t distribution system is normally not earth		Ant
Ann	entrance of the building and there is nor		Anbor
I. 7.2.1 A11:2009)	equipotential bonding system within the		ek bo
A11.2009)	Therefore the protective earthing of the	building	Pri
	installation need to be isolated from the	screen of	ooter A
	a cable distribution system.	ak hotek Anbor An	tek
tek	It is however accepted to provide the ins		Anto
	external to the equipment by an adapter interconnection cable with galvanic isola		nboten
	may be provided by e.g. a retailer.	ator, which	tek
	The user manual shall then have the fol		Aupo
	similar information in Norwegian and Sw		K Anbo
	language respectively, depending on in		
	country the equipment is intended to be		oter Ar
	"Equipment connected to the protective	earthing	ptek
	of the building installation through the m		And
	connection or through other equipment		anboto
	connection to protective earthing – and t		botek
	distribution system using coaxial cable, some circumstances create a fire hazard		Ann
	Connection to a cable distribution system		K Anbo
	therefore to be provided through a device		191
	providing electrical isolation below a cer		or bu
	frequency range (galvanic isolator, see l	ENsk Anborto And	abotek
oten An	60728-11)."	tek spotek Anbor P	. otek
	NOTE In Norway, due to regulation for instal		Pupor N
	cable distribution systems, and in Sweden, a isolator shall provide electrical insulation be		Anbote.
	The insulation shall withstand a dielectric str		6 not
	1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	Anbo k sotek Anbote	Ant
	Translation to Norwegian (the Swedish t	text will	otek Ant
	also be accepted in Norway):	ant botek Anbote Ant	NeK.
	"Utstyr som er koplet til beskyttelsesjord		nbo
	nettplugg og/eller via annet jordtilkoplet og er tilkoplet et kabel-TV nett, kan forå		poten
	brannfare. For å unngå dette skal det ve		A
	tilkopling av utstyret til kabel-TV nettet ir		Anbo
	en galvanisk isolator mellom utstyret og		nbote
	nettet."	And tek abotek Anbor	p.
	Translation to Swedish:	ar Anbo Au atek anbo	Anb Anb
	"Utrustning som är kopplad till skyddsjor		wolek .
	jordat vägguttag och/eller via annan utru		ND K
	och samtidigt är kopplad till kabel-TV nä		Anboten.
	vissa fall medfőra risk főr brand. Főr att	Via La D ^{ar} Di ¹	h. otek
	detta skall vid anslutning av utrustninger kabel-TV nät galvanisk isolator finnas m		Anbe
	utrustningen och kabel-TV nätet."	icilari de cabo. Al.	bote

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+elt-	EN 60950-1	Any solek	Anbor
Clause	Requirement – Test	Result - Remark	Verdict
anboter.	Ann ak potek Anbor An	tek anboten Anbo	P**
1.7.2.1	In Denmark, CLASS I PLUGGABLE	per pri-	Nob
(A2:2013)	EQUIPMENT TYPE A intended for connection to	stek Anbort An	Y.
	other equipment or a network shall, if safety relies	who have atek anbo	P
	on connection to protective earth or if surge	Anbotek Anbote Ano	Here
	suppressors are connected between the network	And K botek A	nbor
	terminals and accessible parts, have a marking	aboten Anb	otek
	stating that the equipment must be connected to	All tok aboten	Anbo
	an earthed mains socket-outlet.	K Anbor An	boter
	The marking text in Denmark shall be as follows:	tek subore	Ann
	In Denmark : "Apparatets stikprop skal tilsluttes	oten Anbo A. stek	nbr
	en stikkontakt med jord, som giver forbindelse til	K botek Anbot	Pr
	stikproppens jord."	poter And k	tek D
		where have have	
1.7.5	In Denmark , socket-outlets for providing power to	Anbore Ant	Hotek N
	other equipment shall be in accordance with the	h stek subote At	in the
	Heavy Current Regulations, Section 107-2-D1,	Anbo	abote.
	Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a,	k botek Anbo	No.
	when used on Class I equipment. For	And K sotek	Anbor
	STATIONARY EQUIPMENT the socket-outlet	tek aboten And	
	shall be in accordance with Standard Sheet DK 1	or All Lek boter	Anbe
	1b or DK 1-5a.	stek subore An-	àt
	For CLASS II EQUIPMENT the socket outlet shall be	noo hi stek anboi	Les Ar
		hotek Anbor An	Nex
4 -0 ²	in accordance with Standard Sheet DKA 1-4a.	And K hotek An	000
1.7.5	In Denmark , socket-outlets for providing power to	Anb	NoteN
(A2:2013)	other equipment shall be in accordance with the	All boken	Pupp
	DS 60884-2-D1:2011.	Annor Annok	hoter
	Anbort Anti-	tek pote	Ann
	For class I equipment the following Standard	tek Anbor An tek	abot
	Sheets are applicable: DK 1-3a, DK 1-1c,	k sotek Anbor	Pri
	DK 1-1d, DK 1-5a or DK 1-7a, with the exception	boten Anot	19
	for STATIONARY EQUIPMENT where the	tek boten Anbo	r.
	socket-outlets shall be in accordance with	Inboto Ant ok	ofter.
	Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or	atek nbote An	- K
	DK 1-5a.	Anbor Al tek	boten
	And tek poter And	Lotek Anbor	Pur
	Socket outlets intended for providing power to	And	Anboro
		K boten Anbo	Pri I
	Class II apparatus with a rated current of 2,5 A	Ant wotek	Anbor
	shall be in accordance with DS 60884-2-D1	tek nbote. Ano	
	standard sheet DKA 1-4a. Other current rating	hot An tek both	An
	socket outlets shall be in compliance with by	sotek Anbor And	- ok
	DS 60884-2-D1 Standard Sheet DKA 1-3a or	ind a stek ant	ore a
	DKA 1-3b.	hoten Anbur An	tek
	boten Anbe h. stek subote	Ann ak wotek	hpor
	Justification	anbote, And	wotek
	the Heavy Current Regulations, 6c	Au tek boten	Anbo
2.2.4	In Norway, for requirements see 1.7.2.1, 6.1.2.1	ler pupper And ak	Note
wotek	and 6.1.2.2 of this annex.	otek anbote	Pur
2.3.2	In Finland, Norway and Sweden there are	woten Anbor Ar	M N.ot
K not	additional requirements for the insulation. See	K wotek Anbor	N N N
		aboter And	dek .
0.0.1	6.1.2.1 and 6.1.2.2 of this annex.	prin hotek prib	M
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1	Anto Ant	noteKN
Nex	and 6.1.2.2 of this annex.	Pri tek poter f	"up-
2.6.3.3	In the United Kingdom , the current rating of the	Anbor Am	P
	circuit shall be taken as 13 A, not 16 A.	where wollo	Ann

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ause	Requirement – Test	Result - Remark	Verdio
hotek	Anbote: Anb tek spotek An	hore All otek Anbute	r pape
7.1 Anbo	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN	Anbotek Anbotek Anb	otek Nat
	EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device	Anbotek Anbolc A	Anbotek
	rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integra parts of the DIRECT PLUG-IN EQUIPMENT, s	ek Anbotek Anbotek	Anbotek
anbote.	that the requirements of 5.3 are met.	ek suboten Anbo	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
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.	Anborek Anbotek Anbr	nbote ^k Nob
2.1.1 🔊	In Switzerland, supply cords of equipment	Anboten Anbo	rotek N
	having a RATED CURRENT not exceeding 10 shall be provided with a plug complying with S 1011 or IEC 60884-1 and one of the following		An
	dimension sheets: SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A	Anbotek Anbotek Anbotek Anbote.	tek Anb
	SEV 6533-2.1991 Plug Type 11 L 250 V, 10 A	-+Nopoter Anu	ibotek p
	SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A	Anbotek Anbotek	Anbotek
	In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plu and socket-outlet system is being introduced in Switzerland, the plugs of which are according the following dimension sheets, published in February 1998:	n otek Anbote Ant	ek Anbotel botel A
	SEV 5932-2.1998: Plug Type 25 , 3L+N+PE 230/400 V, 16 A	K Anbotek Anbotek	Anbotek
	SEV 5933-2.1998:Plug Type 21, L+N, 250 V,	10×	Anbotek
		OV, otok Anbolek Anbolek	ek Anbo

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lause	Requirement – Test	Result - Remark	Verdict
.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,	Anbotek	otek Anb
	Section 107-2-D1. CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.		Anbotek Anbotek Anbotek
	If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations, Section 107-2-D' or EN 60309-2.	Anbotek Anboten Anb Anbotek Anbotek A Anbotek Anbotek A Anbotek Anbotek	Anbotek Anbotek
.2.1.1 A2:2013)	In Denmark , supply cords of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1. CLASS I EQUIPMENT provided with socket- 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.	olov Anu Anbotek	Anbotek Anbotek Anbotek Anbotek
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	nbotek Anbotek	tek Anbo botek Ar Anbotek Anbotek
Anbotek	Justification the Heavy Current Regulations, 6c	tek anbotek Anbotek	Anbote.

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Inv	EN 60950-1	Anb	ek anbore	
Clause	Requirement – Test	Result - Remark	Verdict	
3.2.1.1	In Spain , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.	nbotek Anbotek Anbotek Anbotek	R. Nobe	
	Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.	Anbotek Anbotek Ar Anbotek Anbotek	Anbotek Anbotek	
	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994.		ek Anbo botek	
Anbotek	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	Annotek Anbotek	Anbotek	
3.2.1.1	In the United Kingdom , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations. NOTE 'Standard plug' is defined in SI 1768:1994 and	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N Drek Dotek Anbotek Anbotek	
ek Anbou	essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	potek Anbote Ant	An An	
3.2.1.1	In Ireland , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic	Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek Anbot	
3.2.4	Use) Regulations 1997. In Switzerland , for requirements see 3.2.1.1 of this annex.	Anbotek Anbotek Anb	N N	
3.2.5.1	In the United Kingdom , a power supply cord with conductor of 1,25 mm ² is allowed for equipment with a rated current over 10 A and up to and including 13 A.	Anbotek Anbotek Anbotek Anbotek	AnboNK Anbote	
3.3.4	In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is:	Anbotek Anbotek Anbote Anbotek Anbotek Anb	N ^{xm} pote ^k	
	• 1,25 mm ² to 1,5 mm ² nominal cross-sectional area.	Anboten Anbo potek	Anbotek	

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ind i	atek Anbote.	EN 60950	D-11ek	Anbors	All	apoten
Clause	Requirement – Test		in-	Result - Rema	rk Anbo	Verdict
botek	Anbo	Anbotom	Aun	ok hote	Anbort	b.c.
6. 1.2.1 (A1:2010)	In Finland , Norway and following text between the paragraph of the complia	e first and second		botek Anbr	btek Anbo	tek Nabo
	If this insulation is solid, i forming part of a compon consist of either					Anbotek
	- two layers of thin sheet shall pass the electric structure of the shall pass the electric structure of the shall pass the sh					Anbotek
	- one layer having a dista at least 0,4 mm, which sh strength test below.				tek Anbol	ek Anbo
	Alternatively for component through insulation require consisting of an insulating filling the casing, so that CREEPAGE DISTANCES component passes the el	ements for the insu g compound comp CLEARANCES ar S do not exist, if th lectric strength tes	ulation bletely nd ne st in			Anhotek Anbotek Anbotek
	accordance with the com and in addition - passes the tests and ins	en Anbo	p			potek Ani
	2.10.11 with an electric s multiplied by 1,6 (the electric	trength test of 1,5 ctric strength test of	kV of			Anbotek
	2.10.10 shall be performe	100 ⁻				Aupor
	- is subject to ROUTINE strength during manufact voltage of 1,5 kV.					Anboten Anboten
Anbors	It is permitted to bridge the optocoupler complying w		an	otek Anbol	otek Ant	otek N Ant
	It is permitted to bridge the capacitor complying with subclass Y2.					Anbotek
	A capacitor classified Y3 EN 60384-14:2005, may under the following condi	bridge this insulat	ionotek			K Anbotek
	- the insulation requirement having a capacitor classif EN 60384-14, which in a is tested with an impulse EN 60950-1:2006, 6.2.2.	fied Y3 as defined ddition to the Y3 to test of 2,5 kV defi	by esting,			otek Anb
	 the additional testing sh the test specimens as de the impulse test of 2,5 k before the endurance test sequence of tests as dest 	scribed in EN 603 V is to be perform it in EN 60384-14,	84-14; ned in the			Anbotek Anbotek

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nbote.	EN 60950-1	Anboten Anbo	nbotek
Clause	Requirement – Test	Result - Remark	Verdict
boten	Anbu Anu otek Anbote Anu	ok botek Anbou	An
6.1.2.2 http://www.andianalanalanalanalanalanalanalanalanalana	In Finland , Norway and Sweden , the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.	nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Nnbor otek Anb Anbotek Anbotek Anbotek
7.2 hpotek Anbotek	In Finland , Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek N Alla Anbotek Anbotek
7.3 (A11:2009)	In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	atek Anbotek Anbotek	Nipoter

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Tables

.5.1 mbol	TABLE: List of critical	components		Anbor An	P AND
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹
Plug	WJ Anbolek An	WJY-303	16A, 250V AC	BS 1316	VDE
The power cord	BAOHING	H05VV-F	300/500V, 3 x 0.75mm ²	IEC 60227	VDE Anbotek
PCB	Interchangeable	Interchang eable	V-0, 130°C	UL 94	UL Anbu
Plastic enclosure	Chi Mei Corporation	PA- 765A(+)	ABS, V-0	UL 94	UL (E56070
Fuse (F1)	Suzhou Littelfuse OVS Ltd.	215-Series	T1 AL 250 VAC, 5 x 20 mm	IEC 60127-1: 2006 IEC 60127-2: 2003 + A1 EN 60127-1: 2006 EN 60127-2: 2003 + A1	VDE Anbolek
Euse (F2)	Suzhou Littelfuse OVS Ltd.	215-Series	T1 0AL 250 VAC, 5 x 20 mm	IEC 60127-1: 2006 IEC 60127-2: 2003 + A1 EN 60127-1: 2006 EN 60127-2: 2003 + A1	VDE k Anbolek Anbolek
Fuse holder	Echo Electric Co., Ltd.	FH-B02, FH-B12	10 A, 1.6 W, 250 V, 5 x 20 mm V-0 material	EN 60127-1: 1991 + A1 + A2 EN 60127-6: 1994 + A1 + A2	VDE (40003765)
Relay	HANKUK RELAY	HR91A	250V, 5A; 125AC, 10A	IEC 61810-1: 2003 EN 61810-1: 2004	VDE Anbotek
Opto-coupler (IC1)	Everlight Electronics Co., Ltd.	EL817, ek	Int. CR / Ext. CR / Dti. ≥ 6,0 mm / ≥ 7,6 mm / ≥ 0,5 mm, 110 ° C	EN 60065: 2002+ A1 + A11	VDE Anborek potek Anb Anbotek A
abotek An	botek Anboten A	Anbotek	Anbotek Anbote	EN 60950-1: 2006 + A11	Anbotek
nductance (LF1)	Interchangeable	Interchang eable	130°C	EN 60950-1	Tested with appliance
ransformer T1)	JEICO	JREMO 10K	Class B	EN 60950-1	Tested with appliance

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Tables

1.6.2	TABLE: ele	ctrical data te	est (in nor	mal conditi	ons)	Anboten Anbo tek P
fuse #	I rated (A)	U (V)	P (W)	I (A)	I fuse (A)	condition
tek F1 Ant	oro An	90V/50Hz	1.00	0.025	A. nbotek	Max. normal load.
boteF1	mbolo	100V/50Hz	1.01	0.029	N	Max. normal load.
AnbF1	0.5	230V/50Hz	1.16	0.017	dek - an	Max. normal load.
AR10tek	0.5	253V/50Hz	1.21	0.017	notek	Max. normal load.
F1nbote	0.5	90V/60Hz	^{ex} 1.00 🕅	0.024	hotek	Max. normal load.
ek F1 Anb	0.5	100V/60Hz	oo ^{te} 1.01	0.022	An	Max. normal load.
pote ^V F1 p	nbote P	230V/60Hz	1.18	0.016	K phote	Max. normal load.
Anb F1	Anboro	253V/60Hz	1.21	0.016	dek nit	Max. normal load.
Anuotek	0.016	6Vdc	0.042	0.007	rek-	Normal operation.

	2.1.1.5 c) 1)	TABLE: n	nax. V, A, VA test	otek Anboten	Anbotek	Anbotek Anote P
	Voltage ((V)	rated)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
	And	npote	AICHOLO K	Am.	poten - Anbo	K abotek Anbote
14	Remark:	K pr	otek Anbote.	And	nbotek Anboi	An botek Anbo

2.1.1.5 c) 2)	TABLE: store	ed energy	or An	abotek	Anbo	tek Anb	or pu	boteN
Capacitano	ce C (µF)	Volta	ge U (V)			Ener	gy E (J)	
Anbote	Annotek	Anbotek	-Anbor	br.	otek	Anboten	And	abotek
Remark:	Anbo	nbotek	Anboro	K Au.	-otek	Anboten	Anbo	h. bo

2.2	TABLE: evaluat	on of voltage limitin	ng component	s in SELV	circuits	K hoteP		
Loc	ation	Voltage meas	urement (V)	: (V) Comments				
Component	(measured betwe	en)		ltage (V) operation)	Voltage Lir	niting Components		
Transformer	Location		V peak	V d.c.				
T1 Ann	T1 Pin 5 to Pir	16 Anbor A	21.6	nboten	T1 Lek	abotek A		
T1 An	After D1 to T1	Pin 6	An	10.6	D1Anbo	k botek		
Fault test pe	erformed on voltag	e limiting componen	ts Vo		sured (V) in S peak or V d.o	SELV circuits		
D3 short circ	cuit abotek	Anbor An	lek Anbote	Anb.	0	hotek Anbore		

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Tables

Remark: I	Input voltag	ge: 264V/50Hz	Anbore Ann	hotek Anbr	ster Anbo	kek pote	
K at	oter	Anbo	sk anbore A	ne	hotek Anbr	p. p.	
2.5	TABLE	: limited power sou	rce measurement			nboten N Anb	
Con	Condition Output voltag		Output current	t (Isc) (A)	Apparent power (S) (VA)		
		(Uoc) (V)	Meas.	limit	Meas	limit	
Anbotek	Anbo	tek -botek	Anbote, And	lek - nbotek	p.pbor-	Amotek	
- Anbote	W Aup	ek botek	Anboten Anbo	otek - hnbo	rek Auport	An bote	
Remark: S	S-C=Short	circuit, O-C=Open c	ircuit Andore M	10 KOK	botek Anbo	Per Per	

.10.2	TABL	E: Working vo	Itage measure	ement	ak notek	Anbor Ar Pk
Compor	nent	From	То	V rms	V peak	Remark
Anbotek	PL	Pin1	Note Pin5	o ^{ten} 232 N	386	botek Anboten Anbo
		Pin2	Pin5	286	521	Anbotek Anbote An
		Pin3	Pin5	263	529	Anbotek Anbote
te ^k T1		Pin4	Pin5	214	412	Anbotek Anbort
botek		Pin1	Pin6	242	449	ek Anbotek Anbo
		Pin2	Pin6	344 M	512	potek Anboten Anbo
		Pin3	Pin6	277	437	nbotek Anboten Ant
ant	otek	Pin4	Pin6	271	475	Anbotek Anbote.
ek I	nbotek	Pin1	Pin3	182	374	Anbotek Anbote
IC1		Pin1	Pin4	180	371	anbotek Anbort
nbotek		Pin2	Pin3	168 M	346	otek Anbotek Anbo
A	6	Pin2	Pin4	184	378	abotek Anboten Anb
CY1		Pri.	Sec.	214	386	Anbotek Anboten A
emark:	Lotek	Anbor	An	boten	Anbo	stek subote

2.10.3 and 2.10.4	TABLE: Clearar	nce and cre	eepage dista	ance measurer	nents	Anbotek	Anb P P
Clearance (c distance (cr)	l) and creepage at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Functional:	otek Anbotek	Anbor	stek Anbr	otek Anbote	+ek Anb	abotek Ant	otek An
Trace of L/N	before fuse	420	250	1.5 Ant	2.8	2.5	2.8
Basic/supple	mentary:	abotek	Anbotek	Anboro ptek	Inbotek	Anbotek	Anboundtek

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Tables

					apole
420	250	2.0	3.2	2.5	3.2 ^{.0011}
k Anbote	Anboth	sek Aups	otek A	hbotek Anbo	Am Am
420 M	250	4.0	6.0	5.0	6.0
420	250	4.0	6.0	5.0	6.0
538	323	4.4	>7.0	6.5	>7.0
538	323	4.2 ^{nbote}	>7.0	potek 6.5 Antol	>7.0
Pur	stek snb	otek Anbr	w h	hotek An	pote.
	420 420 538	420 250 420 250 538 323	420 250 4.0 420 250 4.0 538 323 4.4	420 250 4.0 6.0 420 250 4.0 6.0 538 323 4.4 >7.0	420 250 4.0 6.0 5.0 420 250 4.0 6.0 5.0 538 323 4.4 >7.0 6.5

2.10.5	TABLE: Distance th	ABLE: Distance through insulation measurements								
distance t	hrough insulation di at/o	f: U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)				
Anb	An botek	Anboten Ant	- Var	abotek - Anb	Ano	tek - nb				
Remark:	nbore And tek	abotek	Anbor	p	Inpoter And	Lek.				

4.3.8	TABLE: E	Batteries						V. P	Net
The tests of data is not a		applicable	only when app	propriate b	attery	Anbot	ek Al	boten	Anbote Anbote
Is it possible	e to install t	he battery	in a reverse p	olarity pos	ition?	ek Ant	por	Annotel	- N _o h
ek Aup	Non-re	chargeable	e batteries		F	Rechargeat	ole batteri	es	
	Discha	arging	Un-	Cha	rging	Discha	arging	Reverse	d chargin
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	Anbou Anbou ek Ar	ek An hotek An	potek Anb Anbotek I	hbotek Anbotek	Anbotek Anbotek	Anbote Anbote	k An	Anbotek Anbotek	Ant Anbote Ant
Max. current during fault condition	Anb <u>otek</u>	And Anbotek Anbot	Anbotek Anbote	Anbou Anb	nbotek	Anbotek Anbotek	Anboten Anbot	anb ^c ek Ar	Anbotek
Anb	photo bot	ek Ant	pore Ann	otek	Anbotek	Anbor	pt.	botek	Anbote
Test results	ak pr	otek	Anboten P	nb-	abote	See belov	V	An	Verdict
- Chemical	leaks	otek	Anboten	Anbo	6 Y	No leakag	led	Ann	ek
- Explosion	of the batte	ery	nbotek	Anbor	An	No explos	ionpoten	Anbo	NOK-
- Emission	of flame or	expulsion of	of molten meta	al Anb	oter I	No fire	nboth	SK AL	por
- Electric sti	rength tests	of equipm	ent after com	pletion of t	ests	No damag	ged	otek	Anboto
Supplemen	tary informs	ation:	oten Aup	N.	atek.	Anbote	bu	You	hoter

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Tables

4.5	TABLE: Thermal requirements			Pabo
Anbo	Supply voltage (V)	90V/50Hz	264V/50Hz	
Aupril Aupril	Ambient T _{min} (°C)	60.0	60.0	
nboten Ant	Ambient T _{max} (°C)	60.0	60.0	
	asured temperature T of part/at:	T (°	°C)	Allowed T _{max} (°C)
PCB near U4	Anbotek Anbot All	84.2	82.4	130
PCB near DB1	K spotek Anbota K	101.5	130	
Y-Cap. (CY1)	1) 85.3 84.3			
T1 winding	or An notek Anboten	100.5	96.1	110
T1 core	mbote Att sotek Anboten	96.8	85.2	110
LF1 winding	Anbotek And Atek Inbotek	94.5	84.7	130
C11 body	Anboten Anbo tek pool	75.2	66.3	105
Enclosure insi	de near T1 top	95.3	80.2	105
Enclosure insi	de near T1 bottom	76.8	74.5	105
Enclosure outs	side near T1 top	71.6	77.3	95
Enclosure out	side near T1 bottom	64.2	61.5	95
Remark: For R	X	Anbo- An	hotek Anboten	Ann

4.5 mbo	TABLE: Thermal requirements					P
otek Ar	Supply voltage (V):	6Vdc	stek	nbotek	Anbe	
in stek	Ambient T _{min} (°C):	60.0	Anbu	ek nbot	A Ne	
And	Ambient T _{max} (°C)	60.0	Anbo	Kelt of	otek	_
Maximum m	easured temperature T of part/at:			Allowed T _{max} (°C)		
PCB near U	1 ^k Anbor An hotek Ant	72.3	Kek.	abotek	Anboro	130
PCB near U2	Botek Anbois Ano sotek	76.5 ⁰⁰	10. Lek	p. botet	Anbo	130
C28 body	abotek Anboten And atek	80.2	~upor	k hote	K	130
Handle	Anbotek Anbotek Anbo	62.3	Anboy	Ann	otek	95
Inside enclos	sure house house house	67.6	Ant	ofer Pup	tek	105
Outside encl	osure	63.4	4	Inpoten P	Inportek	95
Remark: For	TX MALE MALE	Dru Ann	-tek	abotek	Aupor	K. Pr.

4.5.5	TABLE: Ball pressure test of thermoplastics		Art BK
botek	required impression diameter (mm)	≤ 2 mm	Anb

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Tables								
part				test ter	mperatur	e (°C)	impression o (mm	
Input terminals	Anbote.	Annotek	Anbotek	Anbor	125	botek	>4mr	n And
Remark:	Anboten	And	nbotek	Anbor	K	Anthoth	ak Anbot	er I

4.7	TABLE:	Resistance to fire	Am botek Anbotek	Anbo	ek potek	A Poten
Pa	rt	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
Refer to ta	ble 1.5.1 f	or details	ek Anboten An	Po h.	botek Ar	boto And
Suppleme	ntary infori	mation:	stek sphotek	Anbor	Annotek	Anboten P

5.1.6 TABLE	: Touch current m	neasurement		stek pootek Anpor
Condition	$L \rightarrow \text{terminal A} $ (mA)	$N \rightarrow terminal A$ (mA)	Limit (mA)	Comments
L/N to plastic enclosure	0.032	0.032	0.25	Anbotek Anbot An
Remark:	An	abotek Anbo	K wotek	Anbote, And Lak

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests							
Test voltag	e applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No				
L and N (Fu	ise, F1 opened)	AC	1500	note No P				
L/N to plas	tic enclosure	AC	3000	No				
Supplemer	tary information:	tek nbotek	Anbor	Annotek				

5.3.5	npotek	TABI	E: Fault c	ondition t	ests	poter	Pupp	rek boten Anbote	P
	ambient temperature (°C)				Aupo	: 25 °C			
model/type of power supply:					See below				
manufacturer of p rated markings of		power sup	ply	Þu		See page 1			
		of power su	power supply:			See rating label			
No.	lo. Componen Fault t No.		Test voltage (V)	Test time	Fuse #.	Fuse current (A)	Result		
For F	λ.	"otek	Anbo	b.,.	No.	abott	si. Pu	ib stek ant	1010 P/
1	1 U2 pin1-3 SC		253Vac	10 min	Ant	otek	After SC, unit shut down immediat No damage, no hazards.		
2	etek F	27 Anto	SC P	253Vac	10 min	ie <u>-</u>	anbotek K	After SC, unit shut down imr No damage, no hazards.	nediately.
3	D ^{oto} C	11	SC	253Vac	10 min	otek_	Anboten	After SC, unit shut down imr No damage, no hazards.	nediately.

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Tables

4 🔊	T1 pin1-2	SC	253Vac	10 min	otek	Ann	After SC, unit shut down immediately. No damage, no hazards.
5	T1 pin3-4	SC	253Vac	10 min	nb- botek	Ant	After SC, unit shut down immediately. No damage, no hazards.
6	T1 pin5-6	SC	253Vac	10 min	Anbo	tek	After SC, unit shut down immediately. No damage, no hazards.
For T	X:	ek a	poter	Ann		-otek	Anbor An est boten
P. Kupo	U3 pin1-2	SC	6Vdc	10 min	rek P	nbotek	After SC, unit shut down immediately. No damage, no hazards.
8 🕅	R7	SC	6Vdc	10 min	botek	Anbote	After SC, unit shut down immediately. No damage, no hazards.

Remark:

1) SC: short-circuit.

2) #: Denoted that the test was also performed on all alternate material of transformers, and all results were same.

3) The Hi-pot test conducted successfully after the completion of the fault condition.

Photos

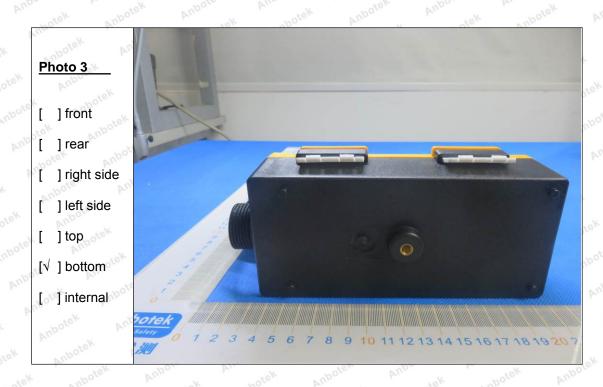
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Photos

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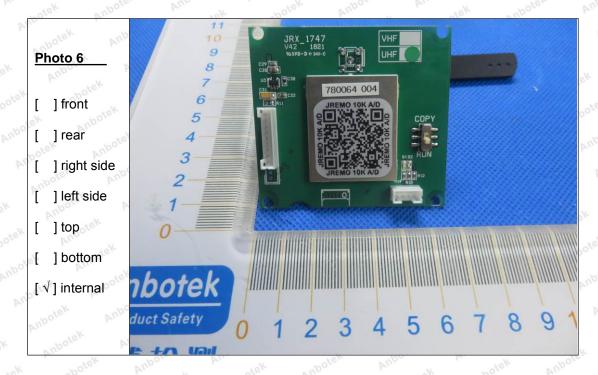




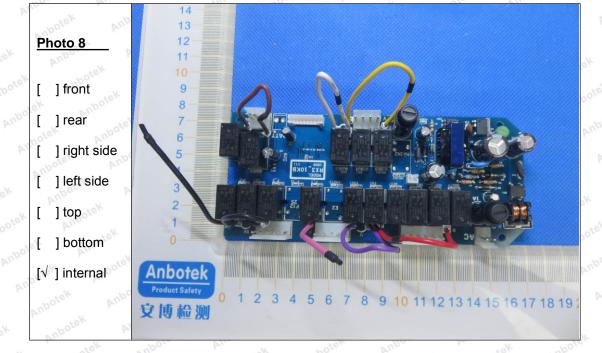
Photos

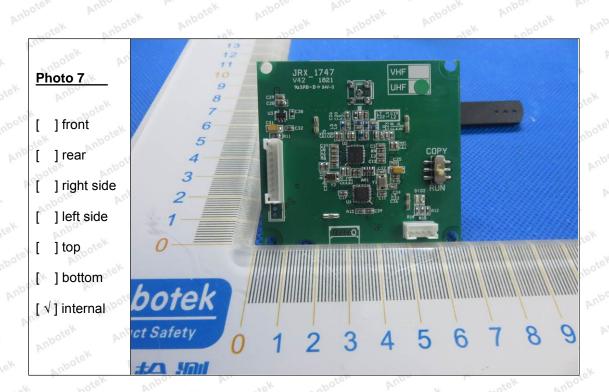
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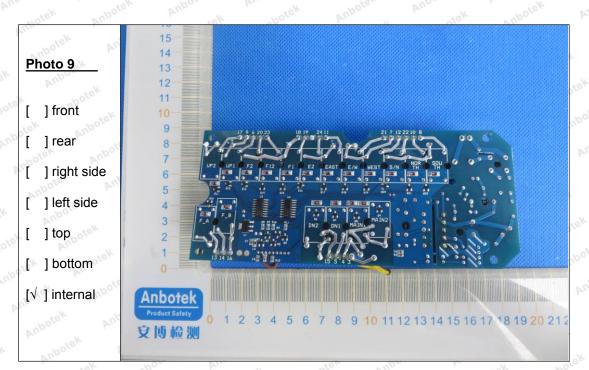
Photos

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Product Safety

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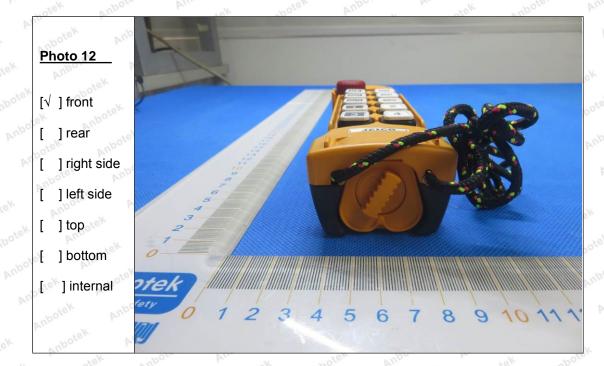




Photos

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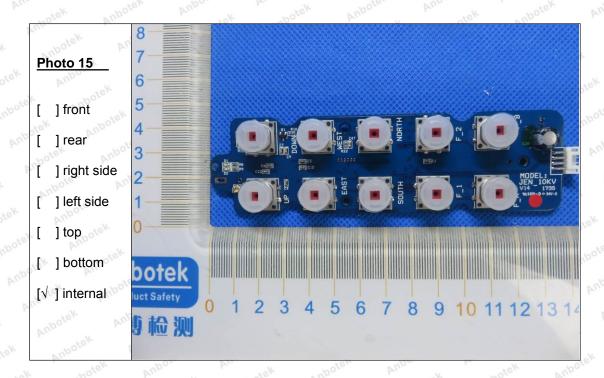


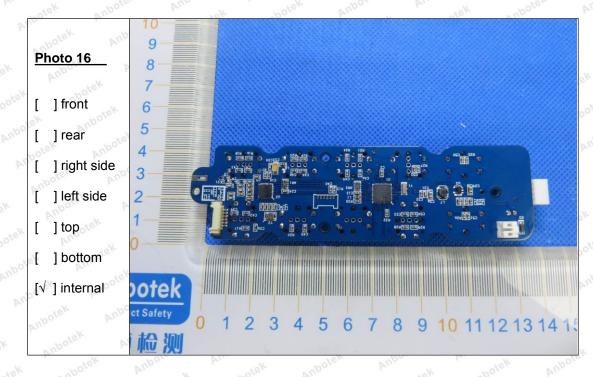
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***End of report**