

Shenzhen Anbotek Compliance Laboratory Limited Page 1 of 60 Report No.: SZAWW181009009-02S

APPLICATION FOR RED DIRECTIVE

On Behalf of

JEICO

Industrial wireless remote controller Model: JREMO 14K, JREMO 14KA, JREMO 14KB, JREMO 14KC, JREMO 14KD, JREMO 14KM

Prepared For : JEICO 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:
 Oct. 09, 2018 to Oct. 26, 2018

 Date of Report:
 Oct. 26, 2018

 Report Number:
 SZAWW181009009-02S



TEST REPORT

IEC 60950-1

Information technology equipment – Safety – Part 1: General requirements

	N NOT AT
Report Number:	SZAWW181009009-02S
Date of issue:	Oct. 26, 2018
Total number of pages	60 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 subotek Anbole Antotek Anbolek
General disclaimer:	And sotek Anbotek Anbotek Anbotek Anbotek

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

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Testing procedure and testing location:	Anbottek Anbotek Anbotek Anbotek
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 Anbotek Jeff zhm

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



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Test item description: In	ndustrial wireless remote controller
Trade Mark	JEICO [®] Andolek Andolek Andolek And
Manufacturer: JI	EICO
nadet model 94	4-1, Choryang-ro, Dong-gu, Busan, Korea (48805)
	REMO 14K, JREMO 14KA, JREMO 14KB, JREMO 14KC, REMO 14KD, JREMO 14KM
Ratings T	X Power: 6V===, 16mA
And tek andotek Andor R	2X Power: 110-230V~, 50/60Hz, 0.5A
Tests performed (name of test and test clause):	Testing location:
The submitted samples were found to com the requirements of:	onenzhen / inbolek oompliande Euboratory Elimited
Electrical safety	1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an
 EN 60950- 1:2006+A11:2009+A1:2010+A12:2011 13 	District, Shenzhen, Guangdong, China.518102



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R

Copy of marking plate:

JEICO[®] Industrial wireless remote controller Model: JREMO 14K (TX) Input: 6V=== 16mA Product Serial Number: 1810001

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

JEIC Industrial wireless remote controller Model: JREMO 14K (RX) Input: 110-230V ~, 50/60Hz, 0.5A Product Serial Number: 1810001



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. potek probote And rek prote
Class of equipment:	🗌 Class I 🛛 Class II For TX 🖾 Class III For
otek Anbote, And hotek Anbotek Anb	RX
Considered current rating of protective device as part of the building installlation (A)	16A ^{ten} M ^{bo} h ^t lek bote
Pollution degree (PD)	🔲 PD 1 🛛 PD 2 🔲 PD 3
IP protection class	IP20
Altitude during operation (m):	2000
Altitude of test laboratory (m):	<500
Mass of equipment (kg):	Approx. 0.657Kg(RX); Approx. 0.375Kg(TX)
Possible test case verdicts:	nbo tek abotek Anboto Am
- 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	tek Anboten Ante tek potek Anbo
Testing	
Date(s) of performance of tests:	Oct. 09, 2018 to Oct. 26, 2018

tek



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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 50°C.

3. All models are identical, except for model No., colour of enclosure. Unless otherwise specified, the model "JREMO 8K" 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 hatak	- supplementary insulation	Slotek	
polarity	BOP	- reinforced insulation	RInbote	

Indicate used abbreviations (if any)



a notok	IEC 60950-1	P H Ptek Anboto	Ann
Clause	Requirement – Test	Result - Remark	Verdic
Anbor	GENERAL	otek Amboli Am	P ^{nb}
Anboter	GENERAL	wotek Anboten Anbo	ek P
tex npo	tek Anbor Al. Alek Anboren A	ind tek anbolek Anbol	P
1.5	Components	Anbor An Lotek An	otek P
1.5.1	General	Anboten Anbo	P
Anboten	Comply with IEC 60950-1 or relevant component standard	(see appended table 1.5.1)	Anbotel
1.5.2	Evaluation and testing of components	len Anbo Lek abotek	Rupe
1.5.3 And And	Thermal controls	No thermostat and temperature limiter used for thermal control circuit	K N A
1.5.4	Transformers	See annex C	Prote
1.5.5	Interconnecting cables	nbotek Anbo	Ptek
1.5.6	Capacitors bridging insulation	Y-cap (C1), comply with IEC/EN 60384-14	Am P Anbo
1.5.7 Anbote	Resistors bridging insulation	otek Anboten Anbo	Р
1.5.7.1 And	Resistors bridging functional, basic or supplementary insulation	Functional insulation only	ptek P
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
1.5.8	Components in equipment for IT power systems	Not directly connected to the mains	N
1.5.9	Surge suppressors	Anboten Anbo tek ab	te ^K N
1.5.9.1	General	Anborek Anbor An	boteN
1.5.9.2	Protection of VDRs	abotek Anbote A	Nex
1.5.9.3	Bridging of functional insulation by a VDR	K botek Anboien	A mbu
1.5.9.4	Bridging of basic insulation by a VDR	K hotek Anbotek	PN N
1.5.9.5 Minute	Bridging of supplementary, double or reinforced insulation by a VDR	hotek Anbotek Anbotek	NAM

1.6	Power interface	hotek Anbote A	Px
1.6.1	AC power distribution systems	TN, TT power distribution system	Anbotek
1.6.2	Input current	(see appended table 1.6.2)	Papo
1.6.3 Moole	Voltage limit of hand-held equipment	notek Anboten Anbo	N
1.6.4	Neutral conductor	Basic insulation provided	Р

1.7.1	Power rating and identification markings	Anbotek	Anbo	p	Anboten
1.7.1.1	Power rating marking	nbotek	Anbou	Annotek	ArPoten

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, tok	IEC 60950-1	Al' stell	AUD
Clause	Requirement – Test	Result - Remark	Verdict
Aupor	Multiple mains supply connections	dtek Anbote And And	Nnbr
Anbote	lot bolo hov	See label	
tek Anb	Rated voltage(s) or voltage range(s) (V)	telt noto Ant	P P
wolet.	Symbol for nature of supply, for d.c. only	hore ho	· ·
100 rek	Rated frequency or rated frequency range (Hz):	See label	Anbot P
Anbo	Rated current (mA or A)	See label	Anbotek
1.7.1.2	Identification markings	stek Anbote, And And	P
Anbote	Manufacturer's name or trade-mark or identification mark	Manufacturer: JEICO	P
en Aup	Model identification or type reference	See page 1	otek P
botek P	Symbol for Class II equipment only	Anbote An	InboteR
Anbo	Other markings and symbols	Additional symbol or marking	Anter
	And Anboren Anbor	does not give rise to	Anbo
Anbore	Ann sotek Anbotek Anbot A	misunderstanding used.	it is
1.7.1.3	Use of graphical symbols	hotek Anboten Anbo	Kek P
1.7.2	Safety instructions and marking	And Antek Anbotek Ant	Р
1.7.2.1	General	And tek nbotek	nbor P.K
1.7.2.2	Disconnect devices	Anbor tek stotek	AnbPor
1.7.2.3	Overcurrent protective device	tek Anbolt Ant hotek	Noot
1.7.2.4	IT power distribution systems	Not connected to IT power distribution systems	Npa
1.7.2.5	Operator access with a tool	No such area	o ^{tek} N
1.7.2.6	Ozone	No ozone	boteN
1.7.3	Short duty cycles	Continuous operation	N
1.7.4	Supply voltage adjustment:	No such device	N
Anbotek	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	F1, F2 marked on PCB near	wote ^W P
	characteristics, cross-reference)	fuse and marked marked on schematic	Anbotek
1.7.7	Wiring terminals	No wiring terminal	Note
1.7.7.1	Protective earthing and bonding terminals:	otek Anbotek Anboro	Р
1.7.7.2	Terminals for a.c. mains supply conductors	stek nbotek Anbote	N
1.7.7.3	Terminals for d.c. mains supply conductors	No such terminals	N
1.7.8	Controls and indicators	Antooto Anto sotek At	pote ^K N.
1.7.8.1	Identification, location and marking	Anboten Anbo Atek	Anbotok
1.7.8.2	Colours	n nbotek hnbo	NOTE

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ins ink	IEC 60950-1	Anbo. K. notek	Anbote.
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	Ante in apotek Antor An	dtek Anboten Anbo	r-
1.7.8.3	Symbols according to IEC 60417	wotek Anbotek Anbot	N
1.7.8.4	Markings using figures:	10 ¹	NP
1.7.9	Isolation of multiple power sources	10 100 Mar	o ^{ter} N
1.7.10	Thermostats and other regulating devices	Prive C C NOV	Ntodo
1.7.11	Durability	Rubbing test for 15 s with water then for 15 s with petroleum spirit	Anbotek
1.7.12 no ^{tek}	Removable parts	tek potek Anbore	N
1.7.13	Replaceable batteries:	noo. An hotek Anboth	P PS
A.	Language(s)	English	oter
1.7.14	Equipment for restricted access locations::	Anbote Ann Otek	nboteN
Anboro	And Anbotek Anbotek Anbotek an botek	Anboten Anbo	npotek
2 Anboto	PROTECTION FROM HAZARDS	tek Anboten Anbo	Poo
2.1 Anboten	Protection from electric shock and energy hazards	otek Anboten Anbo	Р
2.1.1 mbot	Protection in operator access areas	otek anbotek Anbou	Р
2.1.1.1	Access to energized parts	And tek nbotek And	P
p. rek	Test by inspection:	Anbo lek potek	nboteP
Anbor	Test with test finger (Figure 2A):	Anboro Ann hotek	AnoPter
Anbour	Test with test pin (Figure 2B)	tek Anbore Am otek	Phoot
ek Anboto	Test with test probe (Figure 2C):	No TNV circuit within the equipment	N
2.1.1.2	Battery compartments	Anbo, ok sotek Anb	P
2.1.1.3	Access to ELV wiring	No internal wiring at ELV	nbote N
Anbors	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:	poto Ann sotek Anbotek	NAM
2.1.1.6	Manual controls	No such control	Kek N
2.1.1.7	Discharge of capacitors in equipment	Anboten Anbor tek	boteKN
Anboten I	Measured voltage (V); time-constant (s):	Anbotek Anboy A	botek
2.1.1.8	Energy hazards – d.c. mains supply	ek nbotek Anbou	Note
Anbotek	a) Capacitor connected to the d.c. mains supply:	tek nbotek Anbotek	N
k Anbote	b) Internal battery connected to the d.c. mains supply:	anbotek Anbotek Anbotek	N N
2.1.1.9	Audio amplifiers:	Anbotek Anbots An	ote ^K N
2.1.2	Protection in service access areas	No services access areas	N ⁶
2.1.3	Protection in restricted access locations	Equipment not intended to used in restricted access	Ambe



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Inport K	Arm hotek Ar	botek Anbo	IEC 60950-1	Anboten	Andwotek	Anbotek
Clause	Requirement –	Test	rek pri	Result - Remar	k And otek	Verdict
Anbote	Ann	abotek f	upor Ai	dek Anboten	Anbe	P-
todra 4	tek Anbor	An	Anboten And	locations	lek Anbore	An

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.	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 Anboren Anbor P por
2.4.1 pripot	General requirements	otek unbotek Anbot K PAN
2.4.2	Limit values	54.582mA P
pu tek	Frequency (Hz):	77.46KHz
Anbo	Measured current (mA):	3.245mA
Anbou	Measured voltage (V):	6.48V
Anboro	Measured circuit capacitance (nF or µF)	otek Anbote Anto tek - nbot
2.4.3	Connection of limited current circuits to other circuits	nbotek Anbotek Anboek N An
pore An	notek Ambotek Ambo tek motek	Anboten Ann otek Anbotek
2.5	Limited power sources	Anbo NK

2.5	Limited power sources				nboN
Anboten	a) Inherently limited output	K Ant wotek	Anboten	Anbury	Notek
* C.K	ADON PARTY	ale Mus	i at	nor	D.c.

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	IEC 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anboten	Ann tek sobotek Anbou An	tek unboten Anbo	10
botek	b) Impedance limited output	rek potek Anbote	Nav
tek Anbo	c) Regulating network limited output under normal operating and single fault condition	botek Anbotek Anbot	otek N A
botek Ar	Use of integrated circuit (IC) current limiters	An hotek Anboten An	N
Lotek	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	Anboto
Anboten	Current rating of overcurrent protective device (A).:	botek Anbotek Anbote	K PL
te. Pur	Use of integrated circuit (IC) current limiters	Anboten Anbo tek	otek
poren An	tek polek Anboten Ano	Anbotek Anbor An	botek
2.6	Provisions for earthing and bonding	anbotek Anbote	Nek
2.6.1	Protective earthing	ak botek Anboter	N
2.6.2	Functional earthing	K hotek Anbotek	N
ek Anbot	Use of symbol for functional earthing	potek Anbotek Anbotek	N An
2.6.3	Protective earthing and protective bonding conductors	Anbotek Anbotek And	nboteN
2.6.3.1	General	Anbore Ant sotek	an ^b N
2.6.3.2	Size of protective earthing conductors	en Anboten Anbo	Noot
Anboten abote	Rated current (A), cross-sectional area (mm ²), AWG	Jotek Anbotek Anbo	Ant
2.6.3.3	Size of protective bonding conductors	Anbour Anbr	N
nbotek	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 Anboten	Anbote
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 Anbotek Anbotek	N _{An} tek
2.6.3.5	Colour of insulation:	Anbotek Anbo	bote ^K N
2.6.4	Terminals	Anboten Anbolic A	NK
2.6.4.1	General	k abotek Anbote	P. Note
2.6.4.2	Protective earthing and bonding terminals	Lek hotek Anbotek	N
K Anbotel	Rated current (A), type, nominal thread diameter (mm)	nbotek Anbotek Anbotek	ek Anb
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	Anbotek Anboten Anbo	bote ^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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upor A	IEC 60950-1	Anbote And And	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
poten	Anber K sotek Anborr 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	Anno otek Anbotek	Pu N
2.6.5.7	Screws for protective bonding	ten Anbo tek abotek	Nibo
2.6.5.8	Reliance on telecommunication network or cable distribution system	botek Anbotek Anbotek	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 Mapot	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	Anboy ek abotek	Anbole	
2.8.8	Mechanical actuators	Anboth Ann otek	Noter	1



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

All len and h	K hote And	
Electrical insulation	Inbote Ant otek Anbot	P An
Properties of insulating materials	Anboten Anbo	otek P
Humidity conditioning	120hrs	no ^t P
Relative humidity (%), temperature (°C)	40°C, 95%	2nd hotek
Grade of insulation	Functional insulation, basic insulation, supplementary insulation, reinforced insulation or double insulation provided	Ante Anborr
Separation from hazardous voltages	And tek abotek Ant	P
Method(s) used	Method 1, 3	upoton .
	Properties of insulating materials Humidity conditioning Relative humidity (%), temperature (°C) Grade of insulation Separation from hazardous voltages	Properties of insulating materials 120hrs Humidity conditioning 120hrs Relative humidity (%), temperature (°C)

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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	IEC 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anboten	And let potek Anbor An	tek Anboten Anbo	100
2.10.3.6	Transients from a.c. mains supply:	tok nbotek Anbote	N
2.10.3.7	Transients from d.c. mains supply:	too. An motek Anbot	N P
2.10.3.8	Transients from telecommunication networks and cable distribution systems	Anbotek Anbotek An	pote ^K N
2.10.3.9	Measurement of transient voltage levels	An hotek Anboten	And Nek
Annotek	a) Transients from a mains suplply	Am hotek Anbotek	AnN
Amotek	For an a.c. mains supply	and atek unbotek	Nipo
Ann	For a d.c. mains supply:	poter And tek abot	N N
ter Ano	b) Transients from a telecommunication network.:	Anbotek Anbou tek	ote ^k N
2.10.4	Creepage distances	(see appended table 2.10.3 & 10.2.34)	knboteP
2.10.4.1	General	Anbor tek potek	Antpoter
2.10.4.2	Material group and caomparative tracking index	ek Anbor An botek	P(pot
Anbor	CTI tests:	potek Anboro Ant	K - AN
2.10.4.3	Minimum creepage distances	(see appended table 2.10.3 & 10.2.34)	_{ote} k P
2.10.5	Solid insulation	Anbort All botek	nboten
2.10.5.1	General	Anbore And hotek	AnbPlet
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 ote	- N _e d
2.10.5.4	Semiconductor devices	botek Anboten Anbo	tek N
2.10.5.5	Cemented joints	hotek Anboten Anb	N
2.10.5.6	Thin sheet material	And sotek Anbotek P	N _X
2.10.5.7	Separable thin sheet material	And stek anbotek	Anbol
Anuvotek	Number of layers (pcs):	Anbo tek anbotek	Aupore
2.10.5.8	Non-separable thin sheet material	otek Anbo tek Abotel	NAME
2.10.5.9	Thin sheet material – standard test procedure	unbotek Anbos As	Kek N P
oten Ant	Electric strength test	Anboten Anbor At	botek_
2.10.5.10	Thin sheet material – alternative test procedure	nbotek Anbou A	NX
nbotek	Electric strength test	K apotek Anbote k	Any - ote
2.10.5.11	Insulation in wound components	tek abotek Anboten	N
2.10.5.12	Wire in wound components	part abotek Anbotek	N ^{Anb}
ok pu	Working voltage:	nborn Ant sotek Anbo	N P
ore prov	a) Basic insulation not under stress:	Anbote, Anu otek	po ^{tek} N
nbote. P	b) Basic, supplemetary, reinforced insulation:	Anboton Anbo tek	nboten
Anboten	c) Compliance with Annex	Anbotek Anbou	Notel



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Clause	Requirement – Test	Result - Remark	Verdict
botok		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 Notek
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 Burn	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	^{boto} 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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notoh	IEC 60950-1	V - nbo	par a
Clause	Requirement – Test	Result - Remark	Verdict
3.1.1	Current rating and overcurrent protection	ctek Ambor Am	Pnbr
3.1.2	Protection against mechanical damage	botek Anbote Ant	P P
3.1.3	Securing of internal wiring	botek Anboten Anbo	ote ^K P
3.1.4	Insulation of conductors	Ant hotek Anbotek An	P.
3.1. 4	Beads and ceramic insulators	Anber Anbotek	Anbour Ntek
3.1.6	Screws for electrical contact pressure	Anbo stek anbotek	Anbore
3.1.7	Insulating materials in electrical connections	olen Anbo kek Anbotek	P
3.1.8	Self-tapping and spaced thread screws	rootek Anborr An	N N
3.1.9	Termination of conductors	anbotek Anbote Anu	o ^{ten} P
poter p	10 N pull test	An botek Anboten Ant	~ P
3.1.10	NOT PYT	An hotek Anbotek	N ^{ek}
5,1:10	Sleeving on wiring	And otek Anbotek	Pupper
3.2 poter		ster Anbo tek nbotek	P
3.2.1	Connection to a mains supply Means of connection	opotek Anbor Ar.	P
Ann	w otek http://www.	Anbotek Anbote Ant	North
3.2.1.1	Connection to an a.c. mains supply	h. abotek Anbote Anc	P
.2.1.2	Connection to a d.c. mains supply	All hotek Anboten A	nb ^o N
3.2.2	Multiple supply connections	Ant wotek Anbotek	AnbN
3.2.3	Permanently connected equipment	And tok Anbotek	Noo
	Number of conductors, diameter of cable and conduits (mm)	Wotek Anborn A. Anbotek	An
3.2.4	Appliance inlets	Anbor Anb hotek Anb	N
3.2.5	Power supply cords	Anboten And And	n ^{botek} N
3.2.5.1	AC power supply cords	Anboton Anbo	N
Anboten	Туре	ek Anbotek Anbo	1000 - 100
Anbotek	Rated current (A), cross-sectional area (mm ²), AWG	botek Anbotek Anbote	An
.2.5.2	DC power supply cords	Anbotek Anbou Atek Anbo	^{lek} N
.2.6	Cord anchorages and strain relief	Anboten Anbo tek	bote ^K N
nboten	Mass of equipment (kg), pull (N)	Nupotek Anbor A	botek
Anbotek	Longitudinal displacement (mm)	of nbotek Anbote K	Par
.2.7 poter	Protection against mechanical damage	tek sobotek Anboten	N
.2.8	Cord guards	por All botek Anbotek	N
tek An	Diameter or minor dimension D (mm); test mass (g)	Anbotek Anbotek Anbo	ok I
botek	Radius of curvature of cord (mm)	An botek Anboten Ar	Ner,
3.2.9	Supply wiring space	Ant atek abotek	Ambolin



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Anbort	Ann botek Anbotek	IEC 60950-1	Anboten And And	Anbotek
Clause	Requirement – Test	Anbo lek bote	Result - Remark	Verdict

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

K Aup	notek Anbotek Anbout All potek	Anboten Anbo stek anb	otek p
3.4	Disconnection from the mains supply	Anboten Anbo etek	aboteP
3.4.1	General requirement	Anboten Anbo	Bek.
3.4.2	Disconnect devices	ek nabotek Anbot	Protek
3.4.3 Anboteh	Permanently connected equipment	otek photek Anbols	N
3.4.4	Parts which remain energized	tek nbotek Anbote	P
3.4.5	Switches in flexible cords	Anbo tek abotek Anb	N
3.4.6	Number of poles – single-phase and d.c. equipment	Anborek Anborek A	nbote P
3.4.7	Number of poles – three-phase equipment	K abotek Anbote	An Notek
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	^{ver} N ^N
3.4.11	Multiple power sources	Anbote And Atek	boten N

Interconnection of equipment	ek Anbotek Anbot	Botek
General requirements	otek Anbotek Anbolo	P
Types of interconnection circuits	: Connect to SELV circuits	Р
ELV circuits as interconnection circuits	No ELV circuit	N
Data ports for additional equipment	Anbour An hotek An	poter P
	General requirements Types of interconnection circuits ELV circuits as interconnection circuits	General requirements Image: Connect to SELV circuits Types of interconnection circuits Connect to SELV circuits ELV circuits as interconnection circuits No ELV circuit

4 p.n

PHYSICAL REQUIREMENTS

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

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Note	IEC 60950-1	A'' tek apoter	AND
lause	Requirement – Test	Result - Remark	Verdict
Anbore.	And tek abotek Anbor An	tek Anboten Anbo	hote
4.1 botek	Stability	ok potek Anbore	N
	Angle of 10°	ibole Ant sotek Anbot	N And
to Ann	Test force (N)	Anboten Anb	ote ^K N P
poter Ar	bor hi notek Anborer Anno	abotek Anbot Att	otek
4.2	Mechanical strength		And P.K
4.2.1	General	Am atek nbotek	Public N
4.2.2	Steady force test, 10 N	tek Anbor Lek abotek	Ripote
4.2.3	Steady force test, 30 N	potek Anbou Att.	K N Anbr
4.2.4	Steady force test, 250 N	Anbotek Anbote Ann	otek P
4.2.5	Impact test	nbotek Anbott An	P
anbotek	Fall test	500g, 1.3m	Ptek
abotek	Swing test	ek sootek Anboten	AMN stek
4.2.6	Drop test; height (mm)	An wotek Anboten	N
4.2.7	Stress relief test	90°C, 7h	P Anbo
4.2.8	Cathode ray tubes	Anboten Anbourtek anb	ote ^K N M
poten Ant	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.	Nooto
4.2.11 Anboli	Rotating solid media	atek Anbotek Anbote	N
in the	Test to cover on the door:	and k sotek and	N AT

4.3	Design and construction	Anbo ex botek	AnbP
4.3.1	Edges and corners	The outer surface of the equipment is smooth	ARoote
4.3.2	Handles and manual controls; force (N):	tek abotek Anbote	NAME
4.3.3	Adjustable controls	No adjustable controls	N P
4.3.4	Securing of parts	Anbore Am	hoter P
4.3.5	Connection by plugs and sockets	Anbote Ant atek	Anb NK
4.3.6	Direct plug-in equipment	k Anboten Anbo	Notek
Anboten	Torque:	otek Anbotek Anbo	
ak Anbote	Compliance with the relevant mains plug standard	nbotek Anbotek Anbot	lek N Al
4.3.7	Heating elements in earthed equipment	No such elements	oote ^K N
4.3.8	Batteries	Anbotek Anbot A	"o'P ^K
nbotek	- Overcharging of a rechargeable battery	t abotek Anbote	Any N _{stek}



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Classoftek	Desuitement Testick holder And	Desult Dements	V a nall St
Clause	Requirement – Test	Result - Remark	Verdict
Anbot	- Unintentional charging of a non-rechargeable battery	Non-rechargeable battery	Pabo
stek Ant	- Reverse charging of a rechargeable battery	hotek Anbotek Anbo	N N
hotek	- Excessive discharging rate for any battery	And Lotek Anbotek Ant	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 And the	Containers for liquids or gases	No such containers	N
4.3.12	Flammable liquids:	No flammable liquid	N
atek .	Quantity of liquid (I):	Anbo tek photek Ant	N
ips tek	Flash point (°C):	Anbos ek abotek	N ^{od} n
4.3.13	Radiation	Anbor An botek	AntNton
4.3.13.1	General	ek Anbors Ans hotek	Noot
4.3.13.2	Ionizing radiation	No ionizing radiation	K N of
lek Anb	Measured radiation (pA/kg):	abotek Anboten Ano	tek
botek P	Measured high-voltage (kV):	Anbotek Anbotek Anb	-te t
botek	Measured focus voltage (kV):	An hotek Anbotek P	nbo
Annotek	CRT markings:	And otek unbotek	Anbor
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	Noor
ek Anb	Part, property, retention after test, flammability classification:	poten Anbo	NAND
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	And stek Anbotek Anbr	N
4.3.13.5	Lasers (including laser diodes) and LEDs	Anbo otek anbotek A	nbote N
4.3.13.5.1	Lasers (including laser laser diodes)	Anbox tek Anobotek	AnbN
Anbo	Laser class:	Class I	Anbote
4.3.13.5.2	Light emitting diodes (LEDs)	otek Anbott Ant hotek	Anb
4.3.13.6	Other types	hotek Anbote Ant	N N

4.4	Protection against hazardous moving parts	And otek Anbotek A	NO NK
4.4.1	General	Anbo atek Anbotek	Anboth
4.4.2	Protection in operator access areas:	Anbo tek nbotek	P.N.
anb-	Household and home/office document/media shredders	(see Annex EE)	N _{in} b ^o
4.4.3	Protection in restricted access locations:	nbo stek nbotek Anbo	N
4.4.4	Protection in service access areas	Ando tek abotek Al	N ^{bote} N
4.4.5	Protection against moving fan blades	Anboy Att hotek	Anboten
4.4.5.1	General	Anborn Ann hotek	ArNotek



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hporterek	IEC 60950-1	Anboten Anbo	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
aboten	And K sotek Anbort And	tek botek Anbo	pro-
	Not considered to cause pain or injury. a):	All hotek Anboten	Nnbc
Pre	Is considered to cause pain, not injury. b)	bote And And Anbot	N AP
oro. Ar	Considered to cause injury. c):	Anboten Anbo	ote ^K N
4.4.5.2	Protection for users	Anboten Anbour Hek	Note
Anboten	Use of symbol or warning:	Anbotek Anbou	Neek
4.4.5.3	Protection for service persons	ek nbotek Anbot	N
nbot	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 AN ANT	Ker no	N.
4.6	Openings in enclosures		AnbN
4.6.1	Top and side openings	Anbor An otek	Noote
Anbors	Dimensions (mm):	otek Anboten Anu otel	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	kel k
4.6.3	Doors or covers in fire enclosures	An otek Anbotek A	N N
4.6.4	Openings in transportable equipment	And stek anbotek	AnbN
4.6.4.1	Constructional design measures	Anbo tek abotek	AN ^{ote}
Anbo	Dimensions (mm)	otek Anbor An hotek	Anbo
4.6.4.2	Evaluation measures for larger openings	abotek Anboto Ant	K N
4.6.4.3	Use of metallized parts	hotek Anboten And	N
4.6.5	Adhesives for constructional purposes	An hotek Anboten A	N
Am	Conditioning temperature (°C), time (weeks):	And tek abotek	Anbor

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

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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 Anbor		D ABNORMAL CONDITIONS	Р
5.1	Touch current and protective conductor current	pot Annotek Anbote	P
5.1.1	General	Anbort Ant botek Anb	P
5.1.2	Configuration of equipment under test (EUT)	Anbote Ann hotek A	n ^{botek} N
5.1.2.1	Single connection to an a.c. mains supply	Anbote And And	anbotek
5.1.2.2	Redundant multiple connections to an a.c. mains supply	ek Anbotek Anbotek	P.Noote
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	Anbotek Anbotek Anbote	NAMP
5.1.3	Test circuit	Anbotek Anbot An	hoteP
5.1.4	Application of measuring instrument	See Annex D	Rek
5.1.5	Test procedure	K sbotek Anboten	Anthe P otel
5.1.6 botek	Test measurements	an hotek Anboten	Р
ek potek	Supply voltage (V)	264Vac	_And
ph ph	Measured touch current (mA)	(see appended Table 5.1)	rek P
poto Ann	Max. Allowed touch current (mA):	(see appended Table 5.1)	botek_
Anboten A	Measured protective conductor current (mA):	Anboten Anbo	abotek
Anboten	Max. Allowed protective conductor current (mA):	K Anbotek Anbot	An notel
5.1.7 notek	Equipment with touch current exceeding 3,5 mA	tek nbotek Anboro	N
5.1.7.1 5.1.7.1	General:	tek potek Anboten	N
5.1.7.2	Simultaneous multiple connections to the supply	nbor An botek Anbo	NN
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	Anbotek Andrek An	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
Nause Notek		Incourt incourt	Verdict
Anbotel	telecommunication network or to a cable distribution system	notek Anbotek Anbotek	Anbo
ek Anbr	Supply voltage (V):	notek Anbotek Anbo	wak - P
otek b	Measured touch current (mA):	And stek anbotek An	50°°
ip- iek	Max. Allowed touch current (mA):	Anbo tek potek	Anboto
5.1.8.2	Summation of touch currents from telecommunication networks	Anbotek Anbotek	AUN N
nbotek	a) EUT with earthed telecommunication ports:	tek potek Anbote	N
lek Aupo	b) EUT whose telecommunication ports have no reference to protective earth	Anbotek Anbotek Anbote	otek N Ar
potek Al	hon An hotek Anboten Anb	abotek Anbote An	ret
5.2 dek	Electric strength	All otek Anboten	Inde P
5.2.1	General	(see appended table 5.2)	AntP
5.2.2	Test procedure	en Anbor K sotek	B/bol
	Nov	191	
Anbote	Anderson Anbotek Anbote Ant	botek Anboten Anbo	K DU
5.3 P ⁿ⁰⁰	Abnormal operating and fault conditions	potek Anbotek Anbotek Anbote	K An
N.C.	ek anbotek Anbotek Anbotek An	(see appended table 5.3)	K An
5.3.1	Abnormal operating and fault conditions Protection against overload and abnormal	(see appended table 5.3)	K An
5.3.1 5.3.2	Abnormal operating and fault conditions Protection against overload and abnormal operation	(see appended table 5.3) (see appended Annex C)	K An ptek P nboteP
5.3.1 5.3.2 5.3.3	Abnormal operating and fault conditions Protection against overload and abnormal operation Motors	Anbotek Anbotek p	P P N
5.3.1 5.3.2 5.3.3 5.3.4	Abnormal operating and fault conditions Protection against overload and abnormal operation Motors Transformers	(see appended Annex C)	P P N P
5.3.1 5.3.2 5.3.3 5.3.4 5.3.5	Abnormal operating and fault conditions Protection against overload and abnormal operation Motors Transformers Functional insulation	(see appended Annex C)	P P N P
5.3.1 5.3.2 5.3.3 5.3.4 5.3.5 5.3.6	Abnormal operating and fault conditions Protection against overload and abnormal operation Motors Transformers Functional insulation Electromechanical components	(see appended Annex C)	P P N P P P
5.3.1 5.3.2 5.3.3 5.3.4 5.3.5 5.3.6 5.3.7	Abnormal operating and fault conditions Protection against overload and abnormal operation Motors Transformers Functional insulation Electromechanical components Audio amplifiers in ITE	(see appended Annex C)	P 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 5.3.8 5.3.9	Abnormal operating and fault conditions Protection against overload and abnormal operation Motors Transformers Functional insulation Electromechanical components Audio amplifiers in ITE Simulation of faults	(see appended Annex C)	P P N P P N P
5.3.1 5.3.2 5.3.3 5.3.4 5.3.5 5.3.6 5.3.7 5.3.8	Abnormal operating and fault conditions 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 P N P P P N P
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	Abnormal operating and fault conditions 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 P N P P N P N P

6	CONNECTION TO TELECOMMUNICATION NET	WORKS	Anben
6.1 Montes	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	k Anbotek Anbotek Anbotek	Anbotek Anbote
6.1.1	Protection from hazardous voltages	nbo tek nbotek Anbo	N
6.1.2	Separation of the telecommunication network from earth	Anbotek Anbotek An	bote N
6.1.2.1	Requirements	Not connect to telecommunication networks	Anbotek

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hport	IEC 60950-1	Anbotek
Clause	Requirement – Test Result - Remark	Verdict
aboter	Anbo K sotek Anbors And tak sotek Anbor	pr:
	Supply voltage (V)	Aupo
Aur	Current in the test circuit (mA)	tek - An
6.1.2.2	Exclusions	boteK N
nbotek	Anbor est abotek Anboten Anbor tek Anborek Anbor At	hotek

Protection of equipment users from overvoltages on telecommunication networks	Ntek
Separation requirements	AMN de
Electric strength test procedure	N
Impulse test	N Anb
Steady-state test	ote ^k N p
Compliance criteria	N
Protection of the telecommunication wiring system from overheating	Net
Max. Output current (A)	Ann-oter
Current limiting method	And
	Separation requirements Electric strength test procedure Impulse test Steady-state test Compliance criteria Protection of the telecommunication wiring system from overheating Max. Output current (A):

7.1GeneralNot connect to cable distribution systemN7.2Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipmentN7.3Protection of equipment users from overvoltages on the cable distribution systemN7.4Insulation between primary circuits and cable distribution systemsN7.4.1GeneralN7.4.2Voltage surge testN7.4.3Impulse testN	7	CONNECTION TO CABLE DISTRIBUTION SYST	EMS	otek N P
persons, and users of other equipment connected to the system, from hazardous voltages in the equipmentN7.3Protection of equipment users from overvoltages on the cable distribution systemN7.4Insulation between primary circuits and cable distribution systemsN7.4.1GeneralN7.4.2Voltage surge testN	7.1	General		nbo ^{te} Ň
on the cable distribution system7.4Insulation between primary circuits and cable distribution systemsN7.4.1GeneralN7.4.2Voltage surge testN	7.2 Anbotek	persons, and users of other equipment connected to the system, from hazardous	antek Anbotek Anbotek Anbotek	Anbotek Anbotek
distribution systems N 7.4.1 General N 7.4.2 Voltage surge test N	7.3		Anbotek Anbotek Anb	tek N pr
7.4.2 Voltage surge test N	7.4		Anbotek Anbotek A	nbotek
	7.4.1 otek	General	ek spotek Anbote	Ant N stek
7.4.3 Impulse test N	7.4.2	Voltage surge test	an hotek Anboten	Ň
	7.4.3	Impulse test	poter America Anbotek	NAnbo

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 Anbotek	AnboNK
A.1.1 10000	Samples	otek Anboten Anbo	- wot
sk Anbo	Wall thickness (mm)	otek unbotek Anbor	prive
A.1.2	Conditioning of samples; temperature (°C):	npo tek nbotek Anbo	N
A.1.3	Mounting of samples	Anbo ek sotek A	N ^N
A.1.4	Test flame (see IEC 60695-11-3)	Anbour An Lotek	Anboth
Anbort	Flame A, B, C or D	Anboren Anno stek	nuotek

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Claures	Dogwirement Test	Deput Demort	Vandler
Clause	Requirement – Test	Result - Remark	Verdict
A.1.5	Test procedure	tek Anbo kek abotek	Nabot
A.1.6	Compliance criteria	botek Anbor An	N N
rek Ant	Sample 1 burning time (s)	nbotek Anbote And	otek
abotek	Sample 2 burning time (s)	An abotek Anbote An	otek.
potek	Sample 3 burning time (s)		Anbo -tek
A.2 Anbotek	Flammability test for fire enclosures of movable ec not exceeding 18 kg, and for material and compon enclosures (see 4.7.3.2 and 4.7.3.4)	uipment having a total mass	Anbot Anbot
A.2.1	Samples, material:	bet potek Anbott	- Pr
Lek Pri	Wall thickness (mm):		o ^{ter}
A.2.2	Conditioning of samples; temperature (°C):		nboten
A.2.3	Mounting of samples:	Anboten Anbo	Nek
A.2.4	Test flame (see IEC 60695-11-4)	ek Anbotek Anbo	N
Anbote	Flame A, B or C:	stek nbotek Anbot	k Pro-
A.2.5	Test procedure	potek abotek Anbote	N Pro
A.2.6	Compliance criteria	Anbour Ann hotek Anb	N
por p	Sample 1 burning time (s):	Anboro Am	nbotek
Anboro	Sample 2 burning time (s)		nbotek
Anboten	Sample 3 burning time (s):		-bote
A.2.7 Minore	Alternative test acc. To IEC 60695-11-5, cl. 5 and 9	otek Anbotek Anbote	An Anb
Aup.	Sample 1 burning time (s)	Inboten Anbo Lek po	tek I
poten A	Sample 2 burning time (s):	anbotek Anbou An	wotek-
nbotek	Sample 3 burning time (s):	Anbotek Anbote A	nº otek
A.3	Hot flaming oil test (see 4.6.2)	k hotek Anboten	And N .e
A.3.1	Mounting of samples	Ann otek Anbotek	N
A.3.2	Test procedure	oter Anbo tek nbotek	NAND
A.3.3	Compliance criterion	inboten Anbo tek abo	Ket N P
poten Ar	to her botek Anbote, And	Anbotek Anbor An	hotek
B _{nbotek}	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	CONDITIONS (see 4.7.2.2 and	Anboth
B.1 ^{nbo}	General requirements	Anboi An An	Note
Anbor	Position:	Inside enclosure	- nbr
k Anbo	Manufacturer	(see appended table 1.5.1)	ek -
otek An	Type:	(see appended table 1.5.1)	A North
otek	Rated values:	(see appended table 1.5.1)	por
B.2	Test conditions	Anbo tek potek	Anbon
B.3	Maximum temperatures	Anbor Ann stek	Noter

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nbor	IEC 60950-1	Anbote Ann otek	
Clause	Requirement – Test	Result - Remark	Verdict
poter	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	Nipot
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	Inbot 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

D AI	ANNEX D, MEASURING INSTRUMENTS FOR (see 5.1.4)	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)				
D.1	Measuring instrument	Anbotek Anboten Anbo	P			
D.2	Alternative measuring instrument	And tek nbotek Ar	N			

Ebu

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

N



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Anbors	Ann 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)ter
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 K.2	Thermostat reliability; operating voltage (V):	del Astron	Ant Note



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101	IEC 60950-1	r 4	200
Clause	Requirement – Test	Result - Remark	Verdict
K.3 Anbote	Thermostat endurance test; operating voltage (V)	hotek Anbotek Anbotek	Nabo
K.4	Temperature limiter endurance; operating voltage (V)	Anbotek Anbotek Anbo	potek N
K.5	Thermal cut-out reliability	Anboten Anna otek	nbotN
K.6	Stability of operation	Anboten Anbo	Ntek
Anboten	And tek spotek Andors An	tek unbotek Anbor	-b0'
L Anbote	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 And	Typewriters	Anbotek Anbou tek Al	ote ^k N
L.2 N	Adding machines and cash registers	Anbotek Anbour An	N
L.300tek	Erasers house him her	nbotek Anbots	Niek
L.4 abotek	Pencil sharpeners	ek abotek Anboten	AMN
L.5 botek	Duplicators and copy machines	Ath botek Anboten	N
L.6	Motor-operated files	both Am otek Anbote	N An
L.7	Other business equipment	Anboten Anbo	pte ^K N
otek	AND	Anne Lek	abor
M	ANNEX M, CRITERIA FOR TELEPHONE RINGIN	IG SIGNALS (see 2.3.1)	AnbNek
M.1	Introduction	ek Anbor An botek	N ote
M.2	Method A	Notek Anbore Ant hote	N
M.3	Method B	abotek Anbote Anu	NP
M.3.1	Ringing signal	All Anboten And	N
M.3.1.1 M.3.1.2	Frequency (Hz)	All hotek Anboten p	nbo -tek
M.3.1.2	Voltage (V): Cadence; time (s), voltage (V):	No No	AUPO
M.3.1.4	Single fault current (mA)	e Ano sotek Anbotek	Papor
M.3.2	Tripping device and monitoring voltage	oten Anber tek Anbotel	N N
M.3.2.1	Conditions for use of a tripping device or a	Inboten Anbo Anbo	N
Por Pr.	monitoring voltage	Anbore An-	pore
M.3.2.2	Tripping device	Anbote, And otek	NK
M.3.2.3	Monitoring voltage (V)	ak Anboten Anbo	N Note
Anboten	And rek abotek Anbore And	otek anboten Anbo	Pr.
Anboth	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 ^{An}
N.1 Ant	ITU-T impulse test generators	anboten Anbo A.	oteKN



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Inport	IEC 60950-1	tek nbotek
Clause	Requirement – Test Result - Remark	Verdict
abote.	And k water Anbour An est boten Ar	'Ibo. Po
P	ANNEX P, NORMATIVE REFERENCES	Anboten Anbo
K	notek Anboren Anbor ek botek Anboren Ano	nbotek Ar
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	Notek N

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

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

Ster	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)	All
S.1 dek	Test equipment	Prov Nex
S.2 hotek	Test procedure	Anb <mark>N</mark>
S.3	Examples of waveforms during impulse testing	tek pNbou

T	Ann	ANNEX T, GL	JIDANCE	ON PROT	ECTION	AGAINS	T INGRES	S OF WATER	~ ~	tek P
notek	Anb	(see 1.1.2)							Anu	-ok

C	Anbotek	ANNEX U, INSU INSULATION (S		DING WIRES	FOR USE	WITHOUT INTERLEAVED	AnbN
6	Anboten	Anbo	A. botek	Anbote	Ant (S	ee appended table 1.5.1)	Pr.,

V	ANNEX V, AC POWER DISTRIBUTION	SYSTEM	S (see 1.6.1)		20 ^{ce.} - A'
V.1	Introduction	Anbotek	Anbor	Annotek	Anbote P
V.2	TN power distribution systems	abotek	Anbolo	Am	Anber

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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nboten P	IEC 60950-1	Anboren Anbo Ak	hotek
Clause	Requirement – Test	Result - Remark	Verdict
oludoc K		hoter Andrew	Verdiet
N.2.2	Common return, isolated from earth	K Ann Anbotek	Napr
N.2.3	Common return, connected to protective earth	aboten Anbo	N P
Ver Aup.	stek Anbotek Anbote Antonio Antonio	Anbotek Anbo	potek
eoten A	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)	Anbotek Anbotek	AnbotP
(.1 Jotek	Determination of maximum input current	And otek anbotek	Anpole
<.2	Overload test procedure	en Anbo tek Anbotek	Pupo
Anbo	tek spotek Anbore Ann	hotek Anbor An	ek A'
Anbc	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING	G TEST (see 4.3.13.3)	otek N
۲.1 ^{°°} ۲	Test apparatus:	Anbotek Anbote An	N
1.2	Mounting of test samples:	Anbotek Anbotes	New
1.3 potek	Carbon-arc light-exposure apparatus::	ak abotek Anboten	N
Y.4 botek	Xenon-arc light exposure apparatus:	An hotek Anbotek	N
ok no	tek Anboten Anbo tek nbotek Ar	bote And hotek Anbote	Pr.
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2	2.10.3.2 and Clause G.2)	Pter P
poter Ar	atek Anbotek Anbour An hotek	Anboren Anbo	nbotek
4A	ANNEX AA, MANDREL TEST (see 2.10.5.8)	Anboten Anbo	Nek
Anboten	Anbor tek abolek Anbole An	ek Anbotek Anbotek	pus
3B Anboten	ANNEX BB, CHANGES IN THE SECOND EDITIC	Ntek nbotek Anbot	Pr.
K anbot	ek Anbour An	bos pri potek Anbote	× Pr
CC	ANNEX CC, Evaluation of integrated circuit (IC) c	urrent limiters	N
CC.1	General	Anbots Ans hotek	N ^{bote} N
CC.2	Test program 1	Anbore Anti atek	anbotek
CC.3	Test program 2	K Anboten Anbo	Not
Anboten	Anbe tek photek Anbole An	potek Anbotek Anbo	h h
DD Anbot	ANNEX DD, Requirements for the mounting mean	ns of rack-mounted equipment	N
DD.1	General	knot notek not	N

DD.1	General	ind tek potek Anbo	N
DD.2	Mechanical strength test, variable N:	Anbor An Lotek Ar	po ^{ter} N
DD.3	Mechanical strength test, 250N, including end stops:	Anbotek Anbotek	AnboNK
DD.4	Compliance	An hotek Anboten	۳N

EE Anu	ANNEX EE, Household and home/office document/media shredders			
EE.1	General	otek Anborrak Autotek N		
EE.2	Markings and instructions	nbotek Anbot An oth		
botek	Use of markings or symbols	hotek Anbote And N tek		



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nbor	IEC 60950-1	Anbore K And And	
Clause	Requirement – Test	Result - Remark	Verdict
boton	And K solek Anbour An	tek aboten Anbo	14 A
	Information of user instructions, maintenance and/or servicing instructions	potek Anbotek Anbotek	N
EE.3	Inadvertent reactivation test:	botek Anbote And	tek N
EE.4	Disconnection of power to hazardous moving parts	Anbotek Anbotek Ant	Nnbotek
Anboro	Use of markings or symbols	Anboten And	Niek
EE.5	Protection against hazardous moving parts	tek Anboten Anbo	N
Anbote	Test with test finger (Figure 2A)	otek Anbotek Anbot	N
eek at	Test with wedge probe (Figure EE1 and EE2):	pot hotek Anbols	N P0

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	A
	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	Anboro An	Result - Remark	Verdict
boter	Anbour An stek	anboren Anbo	K sotek Anbore	Pur
General (A2:2013)	Delete all the "country" notes in the reference document (IEC 60950- 1:2005/A2:2013) according to the following list:			
(AZ.ZU13)	1:2005/A2:2013) according	to the following list:		19
(AZ.ZU13)	1:2005/A2:2013) according 2.7.1 Note * 6.2.2. Note	to the following list: 2.10.3.1 Note	2 ^{nbotek} Anbotek Anbo	botek 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	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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lause	Requirement – Test	Result - Remark	Verdict
botek	Anboto Ann otek Anbotok Anbo	a hotek Anbote.	Pup
A	Zx.1 General	nbotto Antitek nbot	er Nupo
	This sub-clause specifies requirements for	botek Anbor An	Net N
	protection against excessive sound pressure fro	m rek aboten An	00 P
	personal music players that are closely coupled	Anbor All otek	Anboten
	to the ear. It also specifies requirements for	the abotek Anbo	h. otek
	earphones and headphones intended for use wi personal music players.	K sotek Anboten	Anbe
	A personal music player is a portable equipmen	ten Anbo ok hotek	Anboro
	for personal use, that:	hotek Anbore And	K abo
	is designed to allow the user to listen to recorde	d at notek Anbot	PIL
	or broadcast sound or video; and primarily users		Jotek Ar
	headphones or earphones that can be worn in c		494
	on or around the ear; and allows the user to wal	k And tek spotek	Antor
	around while in use.	Anbor Ant stek	nboten
	NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile	ek abotek Anbo	atek
	phones with MP3 type features, PDA's or similar	All stek subotek	Anbo
	equipment.	boten Anbor Ar	K nbot
	A personal music player and earphones or	stek suboten Anbor	h h
	headphones intended to be used with personal	Anou k notek not	oter An
	music players shall comply with the requirement	S noten Anber A.	ptek
	of this sub-clause.	hotek Anboter A	in lok
	The requirements in this sub-clause are valid for musci or video mode only	And k wotek	photo
	musci or video mode only.	ek Anbote Anu Lak	botek
	The requirements do not apply:	K hotek Anbote	Alle
	while the personal music player is connected to an external amplifier; or	pour Ann tek pote	Anbo
	while the headphone or earphones are not used	botek Anbor An	tet al
	NOTE 2 An external amplifier is an amplifier which is	All stek subotek Anb	PL.
	not part of the personal music player or the listening	Anbo- An atek	nboten
	device, but which is intended to play the music as a	nboten Anbor P	potek
	standalone music player.	An otek suboten	AUD
	The requirements do not apply to:	Anbu k notek	Anbote.
	hearing aid equipment and professional	otek Anboten Anbo	note
	equipment;	k potek Anbote	Anu
	NOTE 3 Professional equipment is equipment sold through special sale s channels. All products sold	intoter And ak we	stek Ant
	through normal electronics stores are considered not	to notek Anbore And	Kek.
	professional equipment.	kno tek sbotek A	nbou
	analogue personal music players (personal mus	ic Anbolt Ant	abotek
	players without any kind of digital processing of	K abotek Anbor	A
	the sound signal) that are brought to the market before the end of 2015.	Att tek abotek	Anbor
ANDY	dek anbor Ar	oter Anbor All stek	N
	NOTE 4 This exemption has been allowed because	stek subotek Anbo	٩N
	this technology is falling out of use and it is expected that within a few years it will no longer exist. This	inbo Au atek anbo	re. Aup
	exemption will not be extended to other technologies.	nboten Anbor Air	wolek n
	For equipment which is clearly designed or	All stek suboten Al	ip P
	intended for use by young children, the limits of	Anboy An atek	Arboter
bore. b	EN 71-1 apply.	A photen Anbor	r otek
.V.	Zx.2 Equipment requirements	P. V. Net	AND N .

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Diamoter	Public Torteak abola Ann	Desult Diensels anbo	N
Clause	Requirement – Test	Result - Remark	Verdict
Anbors	a secolities with the fellowings	dek Anbore. And	
	complies with the following:	stek subore	Aur
	equipment provided as a package (personal	notek Anbor A.	No.
	music player with its listening device), where the	which is a stek anbo	P
	acoustic output L _{Aeq,T} , is ≤ 85 dBA measured	aboten Anbo	atek.
	while playing the fixed "programme simulation	All boten An	100
	noise" as described in EN 50332-1; and a	Ant Ant	Lotek
	personal music player provided with an analogue	A. stek anbote.	And
	electrical output socket for a listening device,	Anbor All tek	aboten
	where the electrical output is $\leq 27 \text{ mV}$ measured	K sotek Anbor	Pur
	as described in EN 50332-2, while playing the	plen Ando tek	anbo
	fixed "programme simulation noise" as described	sk hotek Anbo	b.
	in EN 50332-1.	bote And k not	ek pi
	NOTE 1 Wherever the term acoustic acoustic output is	tek boten Anbo	14 M
	used in this clause, the 30 s A-weighted equipment	Anto Anto	otek
	sound pressure level $L_{Aeq,T}$, is meant.	A. tek pote An	×.
		Anboa An rek	boten
	See also Zx.5 and Annex Zx.	otek Anbor	Nº - ok
	All other equipment shall:	Anbo	npote
	a) protect the user from unintentional acoustic	K hotek Anbo	Pri
	outputs exceeding those mentioned above; and	he. And k sotek	Anbo
	b) have a standard acoustic output level not	tek spoten And	
	exceeding those mentioned above, and	por Ann ok bott	an An
	automatically return to an output level not	stek nbote And	NS.
	exceeding those mentioned above when the	Anbor An tek nt	poter
	power is switched off; and	And Anbor An	- ex-
	c) provide a means to actively inform the user of	And	nbott
	the increased sound pressure when the	boten Anbo	Hor.
		And	anbor
	equipment is operated with an acoustic output	ak aboten Anbo	r" at
	exceeding those mentioned above. Any means	An ok boten	Anbo
	used shall be acknowledged by the user before	stek nbote And	
	activating a mode of operation which allows for	por Ar rek pote	An
	an acoustic output exceeding those mentioned	wotek Anbor An	4.0K
	above. The acknowledgement does not need to	Anbo sek botek Anb	0
	be repeated more than once every 20 h of	hoten Anbo h	Nek
	cumulative listening time; and	And K bolek	upo.
	NOTE 2 Examples of means include visual or audible	aboten Anb	Notek
	signals. Action from the user is always required.	An boten	Anbe
	NOTE 3 The 20 h listening time is the accumulative	ek nbote Ant	note
	listening time, independent how often and how long the	A. tek abote.	And
	personal music player has been switched off.	otek Anbor An	6
	d) have a warning as specified in Zx.3; and	tek nabor	Pri
	e) not exceed the following:	boten Anbe	tek
	1) equipment provided as a package (player with	kin ok boten Anb	
	Its listening device), the acoustic output shall be \leq	anbote And K	hotek
	100 dBA measured while playing the fixed	A. Lek poter A	JUD Y
	"programme simulation noise" described in EN	Anbors All	poter
		h stek sphote	Ann
	50332-1; and	an anbor An Lek	bote
	2) a personal music player provided with an	K otek Anbor	Pur
	analogue electrical output socket for a listening	opten Anbo tek	- nh
	device, the electrical output shall be \leq 150 mV	noten Anbo	pr.
	measured as described in EN 50332-2, while	abote Any	lek .
	playing the fixed "programme simulation noise"	per boten Anb	
	described in EN 50332-1.	Anton Anton K	hotek
	For music where the average sound pressure	htek abote A	N.
	(long term $L_{Aeq,T}$) measured over the duration of	Anbor An ok	boten
	the song is lower than the average produced by	stek saboto	Ann

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40**	anbore Ant K cotek Anbo	her bolo	AUD
Clause	Requirement – Test	Result - Remark	Verdict
nbote.	And an notek Anbor An	ok spoten Anbu	16 m
	does not need to be given as long as the avera	ige	ter And
	sound pressure of the song is below the basic	stek suboro Ann	N-
	limit of 85 dBA. In this case T becomes the	ANDO A. LOK	bote. P
	duration of the song.	A stek	You
	NOTE 4 Classical music typically has an average	Anbo he tek	nbotte.
	sound pressure (long term $L_{Aeq,T}$) which is much low	er sotek Anbo	P.I.
	than the average programme simulation noise.	Anbo	nbore
	Therefore, if the player is capable to analyse the sor	hoten Anbo	e e
	and compare it with the programme simulation noise		Anbor
	the warning does not need to be given as long as the		P*
	average sound pressure of the song is below the ba		lek Aup
		Sic hoten Ano	10
	limit of 85 dBA.	pote And k	otek A
	For example, if the player is set with the programme	A boten Ar	(p~ r
	simulation noise to 85 dBA, but the average music	anbore Ant	Lotek
	level of the song is only 65 dBA, there is no need to	k. tek spote.	Ant
	give a warning or ask an acknowledgement as long		hoten
	the average sound level of the song is not above the	h. tek abote.	And
nbo	basic limit of 85 dBA.	stek anbour Am	noter
	Zx.3 Warning	tek abole	P. N
	The warning shall be placed on the equipment,	or the Antoon Anto	N .00
	on the packaging, or in the instruction manual	indo	Aur
	and shall consist of the following:	otek Anbor Ar	1 at
		s F stek	born by
	the symbol of Figure 1 with a minimum height of	DI 5 Loten Anbor A.	*ek
	mm; and the following wording, or similar:	And	Aupor
	"To prevent possible hearing damage, do not	hoten Anb	rek.
	listen at high volume levels for long periods."	And	anbor
		ok boten Anbo	etek.
	hoten	Ann K wotek	Anbo
		k boten And	
	k boten / K	about Ann A not	anbo Anbo
	Am	tek soften And	
	the short and stell	And An	oter An
		tek nbore An	X
		Anbor An Lok	Anboten
		stek subore	Alle
	tek joten	Anbo k. kek	abote.
	And	K stek habou	Pro
	Figure 4 Werning Jobel //FC CO447 CO44	ten Anbo hek	nboto
	Figure 1 – Warning label (IEC 60417-6044	K sotek Anbor	Pri
	Alternatively, the entire warning may be given	boton Anbo	K nboi
	through the equipment display during use, whe		Pri
	the user is asked to acknowledge activation of	the oten And	otek an
	higher level.	A" Lok noten Ant	Pro Pro
Par	Zx.4 Requirements for listening devices (he	adphones and earphones)	ndlet-
1et			AND AND
	Zx.4.1 Wired listening devices with analogu	e Anbour Ant	N
	input And	Par poter	AMU
	With 94 dBA sound pressure output L _{Aeq,T} , the	lek Anbor Ant	notek
	input voltage of the fixed "programme simulatio	n tek aboten	Anu
	noise" described in EN 50332-2 shall be ≥ 75 n		t not
	This requirement is applicable in any mode who		Aun
			Kelt at
	the headphones can operate (active or passive		or An
	including any available setting (for example bui	Il- noten Anbor Ar	Ne ^K
	in volume level control).	pint the stek	nbo
	ip stek abore Ant	boten Anbor	Nox
	NOTE The values of 94 dBA – 75 mV correspond with	And	A Choire
boter	85dBA – 27 mV and 100 dBA – 150 mV.	K wotek Anbo	P. Lak
N.	Zx.4.2 Wired listening devices with digital	e Ann tek	Nodo
	input	boten Anbo	P
	With any playing device playing the fixed	oote Ann tel	a about

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N.	EN 60950-1	Ann	npor
Clause	Requirement – Test	Result - Remark	Verdict
poter	And K sotek Anbore And	ok botek Anbot	p.c.
	"programme simulation noise" described in EN	All tek aboter	Anb
	50332-1 (and respecting the digital interface	notek Anbort An	- K
	standards, where a digital interface standard	no k sotek Anbo	P
	exists that specifies the equivalent acoustic level),	aboten Anbo	otek
*ek	the acoustic output $L_{Aeq,T}$ of the listening device	All boten A	upu
	shall be ≤ 100 dBA.	Anbore Ante tok	boten
	This requirement is applicable in any mode where	and tek Anbore	Ant
	the headphones can operate, including any	Ando	Anbore
npote	available setting (for example built-in volume level	ek aboten Anbo	P
	control, additional sound feature like equalization,	Ann ak hotek	Anb
	etc.).	stek subote Ans	N.
	tek anbote Ant ak hotek A	hoo Ar tek abo	tor A
	NOTE An example of a wired listening device with digital input	notek Anbor An	Yex
	is a USB headphone.	And stek	1010
	Zx.4.3 Wireless listening devices	aboten Anbo	N
	In wireless mode:	An tek aboten	Anbe
	with any playing and transmitting device playing	Anbort All Lek	boten
	the fixed programme simulation noise described	V otek Anboit	Aur
	in EN 50332-1; and	ten Anbo his stek	nbo
	respecting the wireless transmission standards,	botek Anbo	p.
	where an air interface standard exists that	pote Ant pot	let Al
	specifies the equivalent acoustic level; and with	stek subote Any	N.
	volume and sound settings in the listening device	Anbo, An tek	poten
	(for example built-in volume level control,	sotek Anbor An	rek.
	additional sound feature like equalization, etc.)	And	nbolt
	set to the combination of positions that maximize	aboten Anbo	otek.
	the measured acoustic output for the	An boten	Anbo
	abovementioned programme simulation noise,	ek inbote And	not
	the acoustic output LAeq,T of the listening device	h. stek spote	Anu
	shall be ≤ 100 dBA. NOTE An example of a wireless	Notek Anbor Ar	10
	listening device is a Bluetooth headphone.	the potek Anbor	Þ,
PUL	Zx.5 Measurement methods	abote And	N N
	Measurements shall be made in accordance with	An tek abote. An	N.
	EN 50332-1 or EN 50332-2 as applicable.	Anbor All tek	boten
	Unless stated otherwise, the time interval T shall	otek Anbor	Print
	be 30 s.	And	Anbore
	De 50 S.	ak boten Anbo	n' al
	NOTE Test method for wireless equipment provided without	An boten	Anbo
	listening device should be defined.	otek Anbore And	X
.7.1	Replace the subclause as follows:	k sotek Anbot	P
		aboten And	Clek
	Basic requirements	Ant aboten Ant	5°
	To protect against excessive current, short-	Anbor An Lok	boter
	circuits and earth faults in PRIMARY CIRCUITS,	otek snbott	Am
	protective devices shall be included either as	Anbo	nbore
	integral parts of the equipment or as parts of the	K boten Anbo	p.
	building installation, subject to the following, a), b)	And ok botek	Anbor
	and c):	tek abote Ant	V.
	a) except as detailed in b) and c), protective	hek abote	Ant
	devices necessary to comply with the	botek Anbor An	1ek
	requirements of 5.3 shall be included as parts of	and k solek and	0
	the equipment;	boten Anbur Ar	stek
	104 104	Ann ok notek	Those and
	b) for components in series with the mains input	anbote Anu	hotek
	to the equipment such as the supply cord,	pit tek aboten	And
	appliance coupler, r.f.i. filter and switch, short-	Anbor Ant	bote
	circuit and earth fault protection may be provided	K hole	DUM

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100 P	EN 60950-1	Anbor An	appoten
Clause	Requirement – Test	Result - Remark	Verdict
aboten	Anbo K sotek Anbote And	ok botek Anbo	bu.
An	by protective devices in the building installation;	Ant tek abotek	Anbo
Anbo	c) it is permitted for PLUGGABLE EQUIPMENT	potek Anbor An	ex 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	-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-
70	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 Anbots Ant Lak	tode
	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 Ar	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
boten	Anbor Ant	ok botek Anbox	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 sh not exceed 1 μ Sv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.	all ^A hotek Anbotek A	nbotek Nobek
Anbotek Anbotek	Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	otek Anbotek Anbotek Anbotek	Anbotek
Bibliography	Additional EN standards.	hotek Anborn Ann	et

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	nbo ^{te} N Anbotek
1.2.13.14	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.	kotek Anbotek Anbote	PN ^D
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 Anbotek Anb Anbotek Anbotek Anb Anbotek Anbotek Anb	nbotek Ambotek
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).	ek Anbote Anto potek Anbotek 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	ibotek
Anbolek Anbolek Anbolek	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.		AnboNK Anbotek Anbotek
Anbotek Anbotek	The marking text in the applicable countries shall be as follows: In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	Anti- Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek

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In the K	abotek Anbo An	EN 60950-1	And	otek Anbore
Clause	Requirement – Test	h. hotek	Result - Remark	Verdie
Anboter	Anb ²	abore An	tek anbotek	Anbo A.
	In Norway : "Apparatet må tilkopl stikkontakt"	es jordet		Anbote. An
	V ale And	And a till Pandat A		woter.
	In Sweden : "Apparaten skall ans uttag"	siutas tili jordat		And
	and Anno Anno Anno Anno Anno Anno Anno An	aboten		at anbore
	In Nerway and Swaden, the ser	oon of the ophic		wet botek
	In Norway and Sweden , the screet distribution system is normally no			Jore Aur
ATT D 1 tek	entrance of the building and there			botek Anbor
1.7.2.1 (A11:2009)	equipotential bonding system wit			Anthek
A11.2009)	Therefore the protective earthing			Anbor An
	installation need to be isolated from	om the screen of		abotek
	a cable distribution system.	Anu		Allek
	It is however accepted to provide			Anbor K
	external to the equipment by an a interconnection cable with galvar			otek nboten
	may be provided by e.g. a retaile			N wote
	The user manual shall then have	101		nboten Anot
	similar information in Norwegian	Ū.		sotek Anb
	language respectively, depending			And
	country the equipment is intende	d to be used in:		Anbore P
	"Equipment connected to the pro			K pptek
	of the building installation through			Ann
	connection or through other equi			otek Anbou
	connection to protective earthing distribution system using coaxial			rek pote
	some circumstances create a fire			upore An
	Connection to a cable distribution	N/ ON		abotek Anbr
	therefore to be provided through			Am
ek abc	providing electrical isolation below			Anbor
	frequency range (galvanic isolate	or, see EN		hanboten
oter A	60728-11)."	Ann	apotek Anbo	K wotek
	NOTE In Norway, due to regulation f	100		stek pobo N
	isolator shall provide electrical insula			hotek Anbore
	The insulation shall withstand a diele	ectric strength of		nu jak jor
	1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 n	np.		Anboite An
	Translation to Norwegian (the Sv	vedish text will		botek A
	also be accepted in Norway):	Anu		An
	"Utstyr som er koplet til beskyttel nettplugg og/eller via annet jordti			Anbe
	og er tilkoplet et kabel-TV nett, ka			tek suboten
	brannfare. For å unngå dette ska			K hotek
	tilkopling av utstyret til kabel-TV i	nettet installeres		hoten Anbo
	en galvanisk isolator mellom utst	yret og kabel- TV		hotek Anbo
	nettet."	inbo Air		Ann
	Translation to Swedish:	Anboten Anb		Anbote. Ar
	"Utrustning som är kopplad till sk			holek
	jordat vägguttag och/eller via anr			Ann
	och samtidigt är kopplad till kabe vissa fall medfőra risk főr brand.			Lek Arbote
	detta skall vid anslutning av utrus			ek hotek
	kabel-TV nät galvanisk isolator fi			pore Ann
	utrustningen och kabel-TV nätet.			wotek Anbo

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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	×-
	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 boten	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	Inpoto 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	N.
	standard sheet DKA 1-4a. Other current rating	hot An tek both	An
	socket outlets shall be in compliance with by	sotek Anbor And	No
	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.	pin hotek pub	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 Anboic 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 anboten 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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ause	Requirement – Test	Result - Remark	Verdict
poter	Anbo An hotek Anbore An	ek spotek Anbo	Pri
2.2.1.1 Anbote pole ^k Anb	In Denmark , supply cords of single-phase equipment having a rated current not exceeding13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with socket-	Anbotek	bothk Anti-
	outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wir rules shall be provided with a plug in accordant with standard sheet DK 2-1a or DK 2-5a.	st ing	ek Anbotek Anbotek Anbote
ek Anbr potek A Anbotek A	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 wi the Heavy Current Regulations, Section 107-2 or EN 60309-2.		Anbotek Anbotek Anbotek
3.2.1.1 A2:2013)	In Denmark , supply cords of single-phase equipment having a rated current not exceedin 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 agains indirect contact is required according to the wir rules shall be provided with a plug in accordan with standard sheet DK 2-1a or DK 2-5a.	ed st ring	ek Noor potek Anbr Anbotek A 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 plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	Anboten Ande hotek	ote ^x Anbc nobte ^k Ar Anbote ^k Anbote ^k
Anbotek	Justification the Heavy Current Regulations, 6c	Anbotek Anbotek Anbotek Anbotek	K Anboten

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1Du V	EN 60950-1	Anbo An tek	apoter
Clause	Requirement – Test	Result - Remark	Verdict
2 And	Andore Andore Andore Andore	trok anbotek Anbou	Par.
B.2.1.1	In Spain , supply cords of single-phase equipmen having a rated current not exceeding 10 A shall be provided with a plug according to UNE 20315:1994.	t Albotek Anbotek Anbotek Anbote	stek A
	Supply cords of single-phase equipment having a rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.	Anbotek Anbotek A	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.		tek Anbr htotek A
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.		Anbotek
.2.1.1 Anbotek otek Anbotek	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.		Anbotek Anbotek
	NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	nbotek Anbotek Anbote	ek Ar
.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 Use) Regulations 1997.	Anbotek Anbotek Anbotek Anbotek Anbotek Notek Anbotek Anbotek Notek Anbotek Anbotek Notek Anbotek Anbotek	Anbotek Anbotek Anbotek Anbot
.2.4	In Switzerland , for requirements see 3.2.1.1 of this annex.	Anbotek Anbote, An	Nubotek
.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.	h Anbote, Anv tek Anbotek Anbotek tek Anbotek Anbotek	AnboNK Anbot
.3.4 Anbo	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:	Sphotek Anbotek Anbotek Anbotek Anbotek	o ^{lek}
	• 1,25 mm ² to 1,5 mm ² nominal cross-sectional area.	Anboten Anbo	anbotek

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nbor p	EN 60950-1	Anboro Ant	nbotek
Clause	Requirement – Test	Result - Remark	Verdict
boten	Anbos Anbosen Anbosen Anbosen	not hotek Anbou	Plan
4.3.6	In the United Kingdom , the torque test is performed using a socket outlet complying with BS 1363 part 1:1995, including Amendment 1:1997 and Amendment 2:2003 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	botek Anbotek	Nobolek kotek Anbotek Anbotek Anbote ek Anbote
4.3.6	In Ireland , DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek Anbotek
5.1.7.1 John Stranger	In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED	potek Anbote Anu Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ek N Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek

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nbo	notek Anboter	EN 60950-1	Anbor An	K photen
Clause	Requirement – Test		Result - Remark	Verdict
boter	Anbo	Anboron Ano	not notek Ant	lon bu
6.1.2.1 (A1:2010)	In Finland , Norway and S following text between the paragraph of the compliar	e first and second	Anbolek Anbolek I	Anbotek Nnbe
	If this insulation is solid, in forming part of a compone consist of either		Anbotek Anbotek	Anbotek
	- two layers of thin sheet r shall pass the electric stre		lek Anboten Anbo	otek Anbotek
	- one layer having a distar at least 0,4 mm, which sha strength test below.		of en Anborek	inbotek Anbo
	Alternatively for compone through insulation require consisting of an insulating filling the casing, so that C CREEPAGE DISTANCES component passes the ele accordance with the comp	ments for the insulatio compound completely CLEARANCES and do not exist, if the ectric strength test in	n Ant tek sobotek	Annotek Anbotek http://www.anbotek Anbotek Anbotek Anbot
	and in addition - passes the tests and ins 2.10.11 with an electric st multiplied by 1,6 (the elec	rength test of 1,5 kV	Andotek Andor A Andotek Andotek	Anbotek An Anbotek K
	2.10.10 shall be performe - is subject to ROUTINE T strength during manufactury voltage of 1,5 kV.	ESTING for electric	ek Anbotek Anbotek botek Anbotek Anbotek	tek Anbotek
Anboten	It is permitted to bridge the optocoupler complying with		Anbotek Anbotek Ar	Anbotek N Ant
	It is permitted to bridge the capacitor complying with I subclass Y2.	is insulation with a	Anbotek Anbotek	Anbotek
	A capacitor classified Y3 a EN 60384-14:2005, may b under the following condit	oridge this insulation	ek Anboten Anbo	ek Anbotek
	- the insulation requirement having a capacitor classifi EN 60384-14, which in ad is tested with an impulse to EN 60950-1:2006, 6.2.2.1	ed Y3 as defined by Idition to the Y3 testing test of 2,5 kV defined i		Anbotek Anto Anbotek I
	 the additional testing shat the test specimens as dest the impulse test of 2,5 kV before the endurance test sequence of tests as desc 	scribed in EN 60384-14 V is to be performed in EN 60384-14, in th	4; hubbles Ander	ek Anbotek Anbotek Anbote

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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 potek 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	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

1.5.1	TABLE: List of critical	components			Kek P abo
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
Plug	WJ Anboten 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 Anbotek	Interchangeable	Interchang eable	V-0, 130°C	UL 94	UL Anbo
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 Anbotek Anbotek ek Anbotek botek Anbotek
Fuse (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 Antoniek
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
Inductance (LF1)	Interchangeable	Interchang eable	130°C	EN 60950-1	Tested with appliance
Transformer (T1)	JEICO	JREMO 6K	Class B	EN 60950-1	Tested with appliance

bu notek	Anbotek	Anboto	Ann abotek	Anbotek	Anbor	itek Anbotek Anboten
1.6.2	TABLE: ele	ectrical data to	est (in norn	nal condition	ons)	hotek Anbotek Anbote
fuse #	I rated (A)	U (V)	P (W)	I (A)	I fuse (A)	condition
K F1 nbot	ek - Anbot	99V/50Hz	1.09	0.028	Anbor	Max. normal load.
otek F1	potek - An	110V/50Hz	1.10	0.027	Anbor	Max. normal load.
F1	0.5	230V/50Hz	1.38	0.017	Anbo	Max. normal load.
Filek	0.5	253V/50Hz	1.48	0.017	Aupo	Max. normal load.
F1 _{otek}	0.5	99V/60Hz	1.11	0.025	oter Ar	Max. normal load.

Anbotek

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Tables

						pe tek	
E1ºter	0.5	110V/60Hz	1.12	0.024	botek-	Max. normal load.	nbot
F1,nbot	_Anb	230V/60Hz	^{ek} 1.40 M	0.015	an aborek	Max. normal load.	p. on
potek F1 Ant	pore Ani	253V/60Hz	1.46	0.014	A. nbotek	Max. normal load.	
Anbotek_	0.016	6Vdc	0.09	0.014	- nbot	Normal operation.	lek.
Remark:	Anbor	An	Anboten	Aupo	ick p	otek Anbore Ann	Nek

2.1.1.5 c) 1) TABLE: max. V, A, VA test Ν Voltage (rated) (V) Current (rated) Voltage (max.) VA (max.) Current (max.) (VA) (A) (V) (A) ___ 00 ---___ --Remark:

2.1.1.5 c) 2) TABL	E: stored energy	Kek Ann	ek Anbotel	Anbo	K Anbote	K N Aupo
Capacitance C (µF) Vo	ltage U (V)		Energ	gy E (J)	
abote. Anu otek	anbotek I	Tupor Vi	hotek A	hoten And	- *6K	potek
Remark:	ek nbotek	Anboro	Am	Anboten A	nbo p	botek

2.2 Anbour	TABLE: evaluat	on of voltage limit	ting component	s in SELV	circuits	wotek	PAnb
Loca	ation	Voltage mea	asurement (V)		Comments		
Component (measured betwe	en)		ltage (V) operation)	Voltage Limit	ing Comp	oonents
Transformer	Location		V peak	V d.c.			
T1Anut otek	T1 Pin 5 to Pir	1 6 100 AM	23.7	- Anb	T1	botek	Anboro
T1 And	After D1 to T1	Pin 6	notek - an	10.4	D1	botek	Anb
Fault test per	formed on voltag	e limiting compone	ents Vo		sured (V) in SE peak or V d.c.)		ts
D1 short circu	uitootek Anbr	An hotek	Anboten	Anbo	k 0 potek	Anbr	0 ¹⁰ V
Remark: Inpu	t voltage: 253V/5	i0Hz	ek anbotek	Anbo	wet not	eK p	nboten

2.5 TA	BLE: limited power sou	Irce measurement	hotek ant	10. Pr.	Kak N
Condition	Output voltage	Output current	(Isc) (A)	Apparent power (S) (VA)	
	(Uoc) (V)	Meas.	limit	Meas	limit
- Pek - Pc	otek Anbote Ar	otek - Anbotek	Anbor	P.I.	Anboten
obore All	botek Arboter	anbo otek - Anbotek	Aupore	An- notek	Anbotek

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Tables

Component	From	То	V rms	V peak	Remark
kek spotek	Pin1	Pin5	201	349	Ann botek Anbotek
	Pin2	Pin5	232	378	ek anbotek Anbotek
	po ^{tek} Pin3 pri ^{bl}	Pin5	206	412 M	otek Anbotek Anbot
And Antitek	Pin4	Pin5	212	344	too stek unbotek An
K Anbotek	Pin1	Pin6	268	449	Anbotek Anbotek
	Pin2	Pin6	247	424	And hotek Anbotek
	Pin3	Pin6	216	374 ¹⁰⁰¹⁰	ek abotek Anbotek
	ote ^k Pin4 Antho	Pin6	227	botek 441 Aupo	tek abotek Anbot
Anbotek	Pin1	Pin3	180	371	bo. An abotek An
IS01	Pin2	Pin4	180	371	Anboundek Anbotek
	Pin1	Pin3	182	374	Anbo botek Anbotek
	Pin2	Pin4	184	378	And hotek Anbotek
C1	otek Pri. Anbo	Sec.	201	oo ^{tek} 344 M ^{bot}	Ann stek nbote

2.10.3 and TABLE: Cleara 2.10.4	nce and cre	epage dista	ince measure	ments	Anbotek An	botek P Ar
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Functional:	Anbotek	Anbouc	Antotek	Anboten	Anbo botek	Anbotek
Trace of L/N before fuse	420	250	1.5	2.9	2.5	e ^k 2.9 _A nb ^o
Basic/supplementary:	Anbo	tek Anb	otek Anbot	e. An	nbotek An	potek An
Between Fuse two ends on PCB	420	250	2.0	3.5	2.5	3.5
Reinforced:	Anboten	Anbotek	Anbotek	Anboro	Annbotek	Anboten
Across C1	420	250	4.0	4.4	5.0 produ	6.2
Across IS01	420	250	4.0	otex 6.0	botet 5.0 M	6.0
T1 primary winding to secondary winding on PWB	538	323	4.4	>7.0	6.5	>7.0
T1 primary winding to secondary winding on body	538	323	4.2	>7.0	6.5	>7.0
Supplementary information:	Anboten	Anbo	hotek	Anbote	Ann	K abote

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2.10.5	TABLE: D	istance throug	jh insulatio	n measurem	nents	otek Anb	N NAnbote
distance th	nrough insula	tion di at/of:	U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)
otek	Anbotek	Anbor	hotek	Anbote	Ant	abotek	Inport P
Remark:	Anbotek	Anbort	Anshotek	Anbotek	Anbu	A. abotek	Anbote.
Anbo	, nbotel	Anbore	K Ant	ek Anbot	ek Anbor	ek nbotek	Anboten

The tests of 4.3.8 are applicable only when appropriate battery data is not available Is it possible to install the battery in a reverse polarity position? Non-rechargeable batteries Rechargeable batteries N Discharging Un- intentional current Charging Discharging Reversed charging Meas. Manuf. current Meas. Specs. Manuf. Specs. Meas. Specs. Manuf. Specs. Meas. Specs. Manuf. Specs. Manuf. Specs. <th>000</th> <th>P.v.</th> <th>14</th> <th>water of</th> <th>100</th> <th>r wek</th> <th>000</th> <th>p p</th> <th>In-</th> <th>10</th>	000	P.v.	14	water of	100	r wek	000	p p	In-	10
Market in a reverse polarity position? Non-rechargeable batteries Rechargeable batteries Rechargeable batteries Non-rechargeable batteries Rechargeable batteries Rechargeable batteries Nanuf. Meas. Manuf. Meas. Manuf. Meas. Manuf. Meas. Manuf. Specs. Manuf. Guernet Specs. Current Specs.	4.3.8	TABLE: E	Batteries	no- rek	botek	Anbort	An	atek	Anboten	Nipo
Non-rechargeable batteries Rechargeable batteries Discharging Un- intentional current Charging Discharging Reversed charging Maa. current Manuf. Specs. Manuf. charging Meas. current Manuf. Specs. Manuf. current Meas. Specs. Manuf. current Manuf. Specs. Manuf. Specs. Manuf. Specs. Manuf. current Manuf. Specs. Manuf. current Manuf. Specs. Manuf. current Manuf. Specs. Manuf. current Manuf. Specs. Manuf. current Manuf. Specs. Manuf. Specs. <tht< td=""><td></td><td></td><td>applicable (</td><td>only when app</td><td>propriate b</td><td>attery</td><td>hotek Ar</td><td>Anbotek</td><td>Anbote</td><td>K N Ant</td></tht<>			applicable (only when app	propriate b	attery	hotek Ar	Anbotek	Anbote	K N Ant
Discharging Un- intentional current Charging Discharging Reversed charging Meas. current Manuf. Specs. Manuf. Specs. Maauf. Current Meas. Specs. Manuf. Specs. Meas. current Manuf. Specs. Manuf. Specs. Meas. current Manuf. Specs.	Is it possible	e to install t	he battery	in a reverse p	olarity pos	ition?	stek	nbotel	Ant	N
Meas. currentManuf. Specs.intentional chargingMeas. currentManuf. Specs.Meas. currentManuf. Specs.Manuf. currentMeas. Specs.Manuf. Specs. <td>ND KOK</td> <td>Non-re</td> <td>chargeable</td> <td>e batteries</td> <td></td> <td>F</td> <td>Rechargeal</td> <td>ole batteri</td> <td>es</td> <td></td>	ND KOK	Non-re	chargeable	e batteries		F	Rechargeal	ole batteri	es	
Markets. Markets. <th< td=""><td></td><td>Disch</td><td>arging</td><td>-</td><td>Cha</td><td>rging</td><td>Discha</td><td>arging</td><td>Reverse</td><td>d charging</td></th<>		Disch	arging	-	Cha	rging	Discha	arging	Reverse	d charging
current during normal conditionMax. current during fault condition <td< td=""><td>Anboten</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Anboten									
current during fault condition<	Max. current during normal condition	nbotek nbotek	Anb <u>ot</u> ek Anb <u>ot</u> ek	Anbor Anborek Anborek	Anbotek Anbot	Anbot An potek	en An potek Anbotek	Anbotek Anbotek	Anbote Anb	k Anb otek Anb
- Chemical leaks No leakaged - Explosion of the battery No explosion - Emission of flame or expulsion of molten metal No fire - Electric strength tests of equipment after completion of tests No damaged	Max. current during fault condition	Anbotek	Anbo tek An	potek Ant	otek Inbotek	Anbotek Anbotek	Anbot Anbot	otek A	Anbotek Anbotek	Anboten Amotel
- Chemical leaks No leakaged - Explosion of the battery No explosion - Emission of flame or expulsion of molten metal No fire - Electric strength tests of equipment after completion of tests No damaged	ek Anbo	fer A	100 stek	abotek	Anbore	K Ann	otek	Anbotek	Aupor	well Print
- Explosion of the battery No explosion - Emission of flame or expulsion of molten metal No fire - Electric strength tests of equipment after completion of tests No damaged	Test results	boten	Anbo	h, botek	Anbote	P.C	See below	v nbotek	Anbr	Verdict
- Emission of flame or expulsion of molten metal No fire - Electric strength tests of equipment after completion of tests No damaged	- Chemical I	eaks	Anboth	K pri	K ant	oter	No leakag	jed	Lek A	upore
- Electric strength tests of equipment after completion of tests No damaged	- Explosion	of the batte	ery Anbot	en Aup	No.	abotek	No explos	ion	otek	Anboten
	- Emission o	of flame or	expulsion of	of molten meta	al	hotek	No fire	Pr	12 rek	- TPotek
Supplementary information:	- Electric str	ength tests	s of equipm	ent after com	pletion of t	ests	No damag	ged	Anbor	
	Supplement	ary information	ation:	hotek	Anboten	Punc	tek r	abotek	Anbolo	K PUL

4.5	TABLE: Thermal requirements			Por
hotek	Supply voltage (V):	99V/50Hz	253V/50Hz	
Annotel	Ambient T _{min} (°C):	50.0	50.0	
k her	Ambient T _{max} (°C):	50.0	50.0	
Maximum ı	measured temperature T of part/at:	Т	(°C)	Allowed T _{max} (°C)
PCB near l	J2	84.8	82.7	130
PCB near [DB1 mole And poter	97.3 M	94.1	130
Y-Cap. (C1	notek Anbour Anti-	84.6	83.5	125

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Anbor An otek unboter And			
T1 winding	102.6	94.1	110
T1 core	96.5	84.2	110
T2 winding	92.8	87.3	130
L3 winding	88.6	85.4	130
C3 body	74.9	68.1	105
Enclosure inside near T1 top	93.6	85.2	105
Enclosure inside near T1 bottom	75.7	74.3	105
Enclosure outside near T1 top	72.0	71.8	95
Enclosure outside near T1 bottom	65.2	63.9	95
Remark: For RX	Anboten Anbo	K abotek Ant	jour p

a np	K wold Ant	No.	per per	ate.
4.5 hotek	TABLE: Thermal requirements	Anbor	botek Anboten	AnP el
Anotek	Supply voltage (V):	6Vdc	Anbotek Anbotek	
Ann	Ambient T _{min} (°C)	50.0	And otek - Anboth	
Ne. Ano	Ambient T _{max} (°C)	note 50.0 mote	Anbo stek ant	
Maximum me	easured temperature T of part/at:	Т	(°C)	Allowed T _{max} (°C)
PCB near U1	Anboten Anbo tak abotek	72.3	stek subotek	130
PCB near U2	2 anbotek Anbot An	75.2	tek nbotek	130
L7 winding	ek nbotek Anbote An	81.4	Anbo ok pote	130
Handle	tek abotek Anbote An	60.6	Anbou An	ye* 95 💦
Inside plastic	enclosure	58.3	Anbolo Ant	105
Outside plast	tic enclosure	55.7	otek Antoter P	95
Remark: For	TX, nboten Annu otek nbotek	Anborn	hotek Anboten	Anbu

4.5.5	TABLE: Ball pressure test of thermoplastics	nbotek anbotek	Anboro NAM
otek	required impression diameter (mm):	≤ 2 mm	k Auporo Ar
part		test temperature (°C)	impression diameter (mm)
- Anbore	Ano votek Anbotek Anbo vek vot	lek Althoter I	notek - nbotek
Remark:	And tek abotek Anbor An	notek Anboten	And tak the

4.7	TABLE:	Resistance to fire	ek Aupo, by	botek	Anboren A	P
P	art	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
Refer to ta	able 1.5.1 f	or details	Anbt tek spotek	Anboro	Anna	Anbotek
Suppleme	entary inform	mation:	Anbo An An	lek Anbo	ter. And	tek abot

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5.1.6 Anbo	TABLE:	Touch current m	neasurement	Anupotek	Anbotok Ambot	tek P nit	
Condition		$L \rightarrow terminal A$ (mA)	$N \rightarrow terminal A$ (mA)	Limit (mA)	Comments		
L/N to plasti enclosure	C Anbotek	0.032	0.032	0.25	otek Anbotek	Anboten	
Remark:	Anbot	er Anbo	A. abotek	Anbote. And	otek Anbotek	Anbor	

5.2 Amboli	TABLE: Elect	TABLE: Electric strength tests, impulse tests and voltage surge tests						
Test voltage	applied betweer	1:			(A	age shape AC, DC, Ise, surge	(V)	e Breakdown Yes / No
L and N (Fus	e, F1 opened)	botek	Anbote	And	lek.	AC	1500	No
L/N to plastic	enclosure	An	Anboten	Anbe	Let.	AC	3000	No
Supplementa	ary information:	Ann	6 abot	er A'	upor.	R.	wotek Anbo	And And

5.3.5		TABL	E: Fault c	ondition t	ests			nb tek nbotek A	P	
0-	ambient temperatu		ature (°C)	P.I.		boten	25 ℃			
model/type of po		ower supply	y	ke/t	Anboten	See below				
P.	notel	manu	facturer of	power sup	ply	botek.	Anbote	See page 1		
N.	Ann	rated	markings of	of power su	apply	Votek		See rating label		
No.	Comp t No.	onen	Fault	Test voltage (V)	Test time	Fuse #.	Fuse current (A)	Result		
For F	RX:	br.	*eK	npoter.	Ano	к. М	atek	Anboro Am	boten	
1 _A n	U2 p	in1-2	SC	253Vac	10 min	er.	And botek	After SC, unit shut down immediately No damage, no hazards.		
2	U1 p	oin1-3	SC	253Vac	10 min	pot otek	Anbo	After SC, unit shut down immediately No damage, no hazards.		
3	Anbe	R4 tek	SC	253Vac	10 min	Ann	er - Pr	After SC, unit shut down immediately No damage, no hazards.		
4	T1 p	in1-2	SC	253Vac	10 min	An	otek_	After SC, unit shut down immediately No damage, no hazards.		
5	T1 p	in3-4	SC	253Vac	10 min	ok -	Anboten	After SC, unit shut down immediately. No damage, no hazards.		
6	T1 p	in5-6	SC	253Vac	10 min	o ^{tek}	Anbore	After SC, unit shut down immediately. No damage, no hazards.		
For ⁻	TX:	lek.	Anbol	Par	No.K	opoter	AUPA	k wotek Anbot	bun bun	
7	U3 p	oin1-4	SC	6Vdc	10 min	nbote	e - Pu	After SC, unit shut down im No damage, no hazards.	mediately.	

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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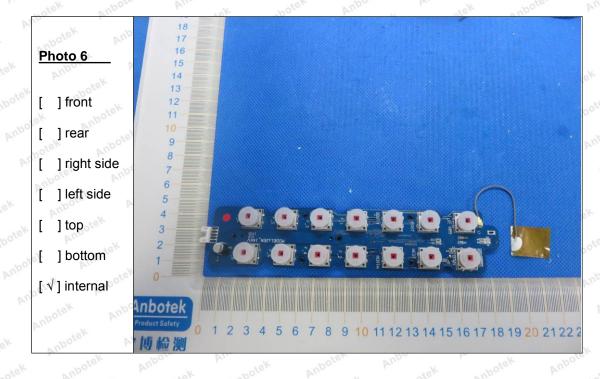




Photos

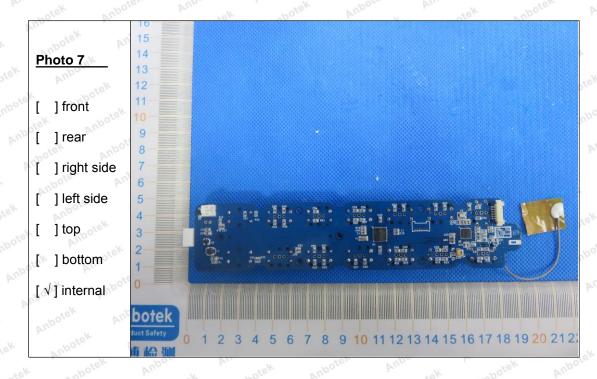
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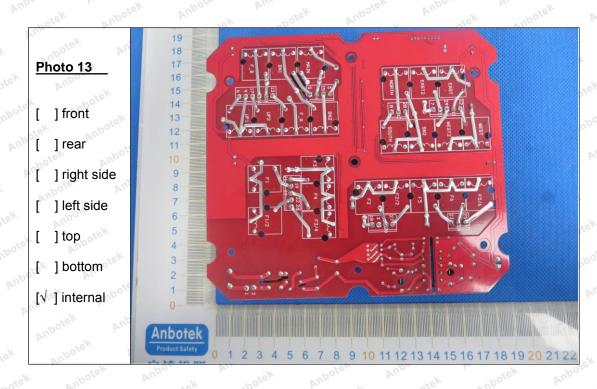
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Photos

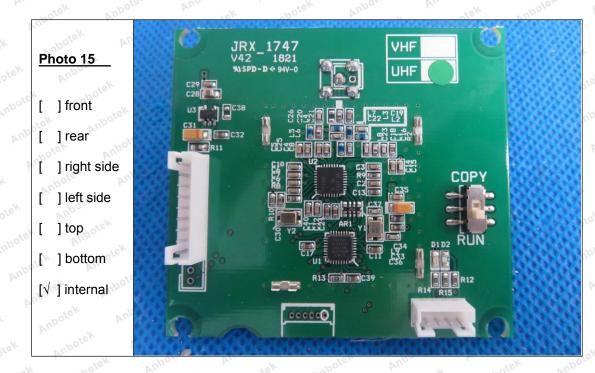
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End of report