

APPLICATION FOR RED DIRECTIVE

On Behalf of MAXIIOT LTD LoRaWAN

Model: DL7612-EX

Prepared For : MAXIIOT LTD

No.60, Zhongshan Rd., Tucheng Dist, New Taipei, Taiwan

23680

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Date of Test: Jun. 22, 2018 to Nov. 06, 2018

Date of Report: Nov. 06, 2018

Report Number: SZAWW180622001-02S



TEST REPORT

IEC 60950-1

Information technology equipment – Safety – Part 1: General requirements

Report Number.....: SZAWW180622001-02S

Date of issue.....: Nov. 06, 2018

Total number of pages 51 pages

Applicant's name: MAXIIOT LTD

Address: No.60, Zhongshan Rd., Tucheng Dist, New Taipei, Taiwan 23680

Test specification:

Standard: IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013

Test procedure: Type Tested

Non-standard test method: N/A

General disclaimer:

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

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Testing procedure and testing location:

☐ Testing Laboratory: Shenzhen Anbotek Compliance Laboratory Limited

Testing location/ address...... 1/F, Building D, Sogood Science and Technology Park,

Sanwei community, Hangcheng Street, Bao'an District,

Shenzhen, Guangdong, China.518102

Tested by (name + signature).....: Yoli Peng

oole And

Approved by (+ signature): Jeff Zhu



Trade Mark....... LoRaWAN

MAXIIOT

Manufacturer MAXIIOT LTD

No.60, Zhongshan Rd., Tucheng Dist, New Taipei, Taiwan 23680

Model/Type reference...... DL7612-EX

Ratings...... Input: 3.3V=== 1A

Tests performed (name of test and test clause):

The submitted samples were found to comply with the requirements of:

Electrical safety

- EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:20

Testing location:

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

List of countries addressed: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES The product fulfils the requirements of EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

Copy of marking plate:

LoRaWAN

MAXIIOT

Model: DL7612-EX Input: 3.3V=== 1A



Manufaccturer: MAXIIOT LTD

Address: No.60, Zhongshan Rd., Tucheng Dist,

New Taipei, Taiwan 23680

(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.





Equipment mobility
Connection to the mains
Rated operating / resting time: Over voltage category (OVC)
Mains supply tolerance (%) or absolute mains supply values
Values
IT testing, phase-phase voltage (V)
IT testing, phase-phase voltage (V)
□ Not classified Considered current rating of protective device as part of the building installlation (A)
of the building installlation (A)
Pollution degree (PD): PD 1 PD 2 PD 3 IP protection class
Altitude during operation (m) 2000
Altitude during operation (m)
Altitude of test laboratory (m) <500
Di to to the total and the tot
Possible test case verdicts:
- test case does not apply to the test object N/A (Not Applicable)
- test object does meet the requirement P (Pass)
- test object does not meet the requirement F (Fail)
Testing
Date of receipt of test item Jun. 22, 2018
Date(s) of performance of tests



	100	-V 40°	D/1	100
"(See Enclosure #)" refers to add	ditional informatior	appended to the	report.	
"(See appended table)" refers to	a table appended t	o the report.		
ter Anbe ok botek	Anbort	in tek		
Throughout this report a ☐ co	omma / 🔀 point is	s used as the dec	cimal separator.	
Note: Before placing the products	s in the different co	untries, the manuf	acturer must ensure tha	t: Anbor
1. Operating Instructions, Rating of the county in question.				
2. The equipment complies with	the National Stand	ards and/or Flectri	ical Codes of the countr	v in question
According to the EU directives				
manufacturer and importer's nam				
on its packaging or in a documen				
Manufacturer's Declaration per	r sub-clause 4.2.5	of IECEE 02:	inbotek Anbot	A).
The application for obtaining a Cl	B Test Certificate	Yes	abotek Anbo	v otek
includes more than one factory lo		⊠ Not applic	ablo atek anbote	
declaration from the Manufacture		⊠ Not applic	anie Vupo. V.	
sample(s) submitted for evaluation	on is (are)	And		
representative of the products fro	m each factory has	wolek Anbore		
been provided		Up.		
Lok botek Anbor	1ek	"Poter Vip.	-k woten	Aupo
ootek Anbotek Anbotek	Anbotek	Aupoten Aup	nbotek Anbotek	Anbonotek
When differences exist; they s	hall be identified i	n the General pro	oduct information sect	ion. Anhotek
About Miles	15011	n the General pro	hole kin	cion. Anbotek
Apole VIII.	15011	N	hole kin	Anberran
About Miles	15011	N	hole kin	cion. Anbotek Anbotek Anbotek Anbotek
Name and address of factory (15011	N	hole kin	Anbersion. Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
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Name and address of factory (Remark: The EUT, class III equipment is the second control of the second control	(ies)	: Same as man	pment.	Anbetek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
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Name and address of factory (Remark: The EUT, class III equipment is the second control of the second control	(ies)	: Same as man	pment.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Name and address of factory (Remark: The EUT, class III equipment is the EUT can operate with full load	used for informatio	: Same as man	pment.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Name and address of factory (Remark: Γhe EUT, class III equipment is the EUT can operate with full load	used for informatio	: Same as man	pment.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Name and address of factory (Remark: The EUT, class III equipment is the EUT can operate with full load. Abbreviations used in the repo	used for informationad at ambient temport:	n technology equi	pment.	Anbotek
Name and address of factory (Remark: The EUT, class III equipment is the EUT can operate with full load Abbreviations used in the report	used for informatio	n technology equi perature up to 40°C	pment.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Name and address of factory (Remark: The EUT, class III equipment is to the EUT can operate with full load Abbreviations used in the report normal conditions functional insulation double insulation	used for information at ambient temport:	n technology equiperature up to 40°C	pment.	Anbotek
Name and address of factory (Remark: The EUT, class III equipment is to the EUT can operate with full load Abbreviations used in the report normal conditions functional insulation double insulation	used for information at ambient temport: N.C. OP DI	n technology equiperature up to 40°C	pment.	Anbotek
Name and address of factory (used for information at ambient temport: N.C. OP DI	n technology equi erature up to 40°C - sing - bas - sup	pment.	Anbotek
Remark: The EUT, class III equipment is of the EUT can operate with full load. Abbreviations used in the report of the conditions of the conditions of the condition of the con	used for information at ambient temport: N.C. OP	n technology equi erature up to 40°C - sing - bas - sup	pment. gle fault conditions sic insulation oplementary insulation	Anbotek



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'Wb - ok	IEC 60950-1	Anbo A A Otek	Aupote
Clause	Requirement – Test	Result - Remark	Verdict
Pupote	And Jek Antotek Antoo Ak	otek Anboten Anbo	-400
1 Anhoten	GENERAL	notek Anbotek Anbot	Pur
rek npo	tek Vupor W. Votek Vuporer V	nbotek Anbor	P.
1.5	Components	Aupo, W. Potok Wy	otek P
1.5.1	General	Anbore Ans wotek	Anbot P
Anbore	Comply with IEC 60950-1 or relevant component standard	(see appended table 1.5.1)	Anbotek
1.5.2	Evaluation and testing of components	lek Anbo tek Abotek	Rupo
1.5.3 Ando	Thermal controls	No thermostat and temperature limiter used for thermal control circuit	N/A
1.5.4	Transformers	Anboten Anbo Lek	N/A
1.5.5	Interconnecting cables	Anbotek Anbote	N/A
1.5.6	Capacitors bridging insulation	ek botek Anbote	N/A
1.5.7 notek	Resistors bridging insulation	k notek Anboten	P
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	botek Anbotek Anbote	PAR
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	Anbotek Anbotek Ant	N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	K Anbotek Ambotek	N/A
1.5.8 Anbotek	Components in equipment for IT power systems	Not directly connected to the mains	N/A
1.5.9	Surge suppressors	botek Anbotes Anbo	√ N/A
1.5.9.1	General	Anbotek Anbotek Anb	N/A
1.5.9.2	Protection of VDRs	And otek Anbotek A	N/A
1.5.9.3	Bridging of functional insulation by a VDR	Anno stek anbotek	N/A
1.5.9.4	Bridging of basic insulation by a VDR	Aupo ek abotek	N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	otek Anbotek Anbotek	N/A
otek onb	otek Anbotek Anbotek	Anho tek nbotek Anho	V
1.6	Power interface	Anbo. A. Botek A.	P
1.6.1	AC power distribution systems	Not directly connected to the mains	N/A
1.6.2	Input current	(see appended table 1.6.2)	N/A
1.6.3	Voltage limit of hand-held equipment	ok hotek Anbotek	N/A
1.6.4	Neutral conductor	house K notek hopo	N/A
A BUD	notek Anbotek Anbot All notek	Aupoter Aupo tek	botek
1.7.1	Power rating and identification markings	Anbotek Anbot Al	, bo'P'
1.7.1.1	Power rating marking	Apolek Anbole	Pote



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a votek	IEC 60950-1	and a stek and ote	And
Clause	Requirement – Test	Result - Remark	Verdic
Pupp	Multiple mains supply connections	crek Aribo, W. Potek	N/A
Pupo	Rated voltage(s) or voltage range(s) (V):	3.3V	P P
cek Ant	Symbol for nature of supply, for d.c. only:	Total Autore Aut	ote ^K P
botek	Rated frequency or rated frequency range (Hz):	abotek Anbote An	N/A
nbotek	Rated current (mA or A):	1A poter Anboter	Pre
1.7.1.2	Identification markings	ck hotek Anbotek	Ambo P
Anbote	Manufacturer's name or trade-mark or identification mark:	MAXIIOT	P
ek Anb	Model identification or type reference:	See page 1	otek P
botek p	Symbol for Class II equipment only:	Class III equipment	N/A
Anbotek	Other markings and symbols:	Additional symbol or marking does not give rise to misunderstanding used.	Anbotek
1.7.1.3	Use of graphical symbols	misuriderstanding dised.	k P
1.7.2	Safety instructions and marking	bo kek abotek Antore	A P
1.7.2.1	General General	Aupor All	P
1.7.2.2	Disconnect devices	Allhore All	N/A
1.7.2.3	Overcurrent protective device	Anbote And botek	N/A
1.7.2.4	IT power distribution systems	Not connected to IT power distribution systems	N/A
1.7.2.5	Operator access with a tool	No such area	N/A
1.7.2.6	Ozone	No ozone	N/A
1.7.3	Short duty cycles	Continuous operation	N/A
1.7.4	Supply voltage adjustment:	No such device	N/A
Anboro.	Methods and means of adjustment; reference to installation instructions:	ok Anbotek Anbotek	N/A
1.7.5	Power outlets on the equipment:	No such device	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):	No Fuse	N/A
1.7.7	Wiring terminals	No wiring terminal	N/A
1.7.7.1	Protective earthing and bonding terminals:	No such terminals	N/A
1.7.7.2	Terminals for a.c. mains supply conductors	Anot stek anbotek	N/A
1.7.7.3	Terminals for d.c. mains supply conductors	No such terminals	N/A
1.7.8	Controls and indicators	hbotek Anbor An	[™] N/A
1.7.8.1	Identification, location and marking:	Anbotek Anbote Ant	N/A
1.7.8.2	Colours:	anbotek Anbote A	N/A
1.7.8.3	Symbols according to IEC 60417:	wotek anboten	N/A



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'upo	IEC 60950-1	Anbo K Air neek	Anbote
Clause	Requirement – Test	Result - Remark	Verdic
1.7.8.4	Markings using figures:	No figures markings	N/A
1.7.9	Isolation of multiple power sources:	Only one power sources	N/A
1.7.10	Thermostats and other regulating devices:	No such regulating device	N/A
1.7.11	Durability	Rubbing test for 15 s with water then for 15 s with petroleum spirit	anbot P
1.7.12	Removable parts	ek Anbotek Anbot	N/A
1.7.13 100 tell	Replaceable batteries	stek abotek Anbote	N/A
ek nbo	Language(s):	oo A hotek Anbot	P
1.7.14	Equipment for restricted access locations:	Anbot An Antek Ant	N/A
Por V	notek Anboten Anbotek	Anbore K Ant Jotek	Aupotek
2nbot	PROTECTION FROM HAZARDS	Anbore And otek	VUI Brek
2.1 _{Anboto}	Protection from electric shock and energy hazards	ek Anbotek Anbo	Poo
2.1.1 Anboten	Protection in operator access areas	otek Anbotek Anbot	P
2.1.1.1	Access to energized parts	Class III equipment, SELV circuit only.	otek P A
pote. An	Test by inspection	Anboten Anbotek	N/A
Anboten	Test with test finger (Figure 2A)	Anbotek Anbo.	N/A
Anbotek	Test with test pin (Figure 2B)	k Anbotek Anbot	N/A
Anbotek	Test with test probe (Figure 2C)	No TNV circuit within the equipment	N/A
2.1.1.2	Battery compartments	Anbotek Anbo. Anbo.	N/A
2.1.1.3	Access to ELV wiring	No internal wiring at ELV	N/A
Anbotek	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)	Anbotek Anbotek	Anbotek
2.1.1.4	Access to hazardous voltage circuit wiring	Anbo. Al. hotek	N/A
2.1.1.5	Energy hazards:	otek Anbore Ans notel	N/A
2.1.1.6	Manual controls	No such control	.≪ N/A
2.1.1.7	Discharge of capacitors in equipment	hotek Anbote Anti	N/A
botek	Measured voltage (V); time-constant (s)	Anbotek Anbotek A	Ibo.
2.1.1.8	Energy hazards – d.c. mains supply	And Lotek Anbotek	N/A
Am	a) Capacitor connected to the d.c. mains supply:	Anto stek anbotek	N/A
K Anbote	b) Internal battery connected to the d.c. mains supply	hotek Anbotek Anbotek	N/A
2.1.1.9	Audio amplifiers	motek Anbotek Anbo	N/A
2.1.2	Protection in service access areas	No services access areas	N/A
2.1.3	Protection in restricted access locations	Equipment not intended to used in restricted access	N/A



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'Ur	IEC 60950-1	Ann	Aupor
Clause	Requirement – Test	Result - Remark	Verdic
Anbore	And Lotek Antiotek Antion All	locations	vup.
Anhote	And otek Anbotek Anbote And	locations	SK 14.
o Anb	OCIV STATE AND THE AND THE A	mbotek Anbotek Anbo	P
2.2	SELV circuits	Anbo stek Anbotek Ani	N/A
2.2.1	General requirements	Anbo tek abotek	N/A
2.2.2	Voltages under normal conditions (V) :	Anbor An hotek	N/A
2.2.3	Voltages under fault conditions (V)	ek Aupole Aug	N/A
2.2.4	Connection of SELV circuits to other circuits:	botek Anboten Anbo	N/A
cek Aupo	ter Andrew Andrew Andrew A	notek Anbotek Anbo	P
2.3	TNV circuits	And anhotek Ant	N/A
2.3.1	Limits	No TNV circuits	N/A
Anbo	Type of TNV circuits	Anbor Al. motek	Aupoten
2.3.2	Separation from other circuits and from accessible parts	ek Aupotek Aupotek	N/A
2.3.2.1	General requirements	poter And Otek Anbote	N/A
2.3.2.2	Protection by basic insulation	Anboten Anbo stek anb	N/A
2.3.2.3	Protection by earthing	Anboten Anbo Lex	N/A
2.3.2.4	Protection by other constructions:	Anbotek Anbot A	N/A
2.3.3	Separation from hazardous voltages	ak nbotek Anbote	N/A
nbotek	Insulation employed	tek abotek Anbote	Vun
2.3.4	Connection of TNV circuits to other circuits	bot An hotek Anbote	N/A
by.	Insulation employed	Anbore Amb	tek
2.3.5	Test for operating voltages generated externally	Aupoles Aup	N/A
Anbore	Ann tek nbotek Anbott An notek	Anbotek Anbo	botek
2.4	Limited current circuits	ek Anbotek Anbot	N/A
2.4.1	General requirements	No limited current circuits	N/A
2.4.2	Limit values	tek abotek Anbotes	N/A
sek a	Frequency (Hz):	Pupor VIII Potek Vinpo	
10r - P7.	Measured current (mA):	Anhore K Ann Jek A	poter_
Aupor	Measured voltage (V):	Anbotes And atek	anbotek
Anboten	Measured circuit capacitance (nF or μF):	Anboien Anbo	- abote
2.4.3	Connection of limited current circuits to other circuits	stek Anbotek Anbotek	N/A
-K Pun	otek Anbotek Anbotek	Anbote Ann atek anbo	CEK
2.5	Limited power sources	Anbotek Anbo tek	N/A
hpotek	a) Inherently limited output	Anbotek Anbot At	N/A
notek-	b) Impedance limited output	stek Anbore.	N/A



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	IEC 60950-1		
Clause	Requirement – Test	Result - Remark	Verdic
Anbore	And tek abotek Anbos An	tek Vipolei Vipo	1.
Anbotel	c) Regulating network limited output under normal operating and single fault condition	botek Anbotek Anbote	N/A
itek Anbo	Use of integrated circuit (IC) current limiters	abotek Anbote. And	N/A
botek A	d) Overcurrent protective device limited output	Anbotek Anboten An	N/A
Anbotek	Max. Output voltage (V), max. Output current (A), max. Apparent power (VA)	(See table 2.5)	Anbote
Anbore	Current rating of overcurrent protective device (A).:	ek Anbotek Anbotek	Anb
ok 20	Use of integrated circuit (IC) current limiters	both Amboth	P
re Vin	otek Anbotek Anbo sek botek	Anbores And stek ont	otek
2.6	Provisions for earthing and bonding	Anboten Anbo tek	N/A
2.6.1	Protective earthing	Class III equipment	N/A
2.6.2	Functional earthing	ak anbotek Anbot	N/A
Anbotek	Use of symbol for functional earthing	potek Anbotek Anbote	N/A
2.6.3	Protective earthing and protective bonding conductors	Anbotek Anbotek Anb	N/A
2.6.3.1	General	Anbotek abotek	N/A
2.6.3.2	Size of protective earthing conductors	Anber tek abotek	N/A
Anbotek	Rated current (A), cross-sectional area (mm²), AWG:	Nek Anbotek Anbotek	Arthoo
2.6.3.3	Size of protective bonding conductors	otek Anbotek Anbote	N/A
otek An	Rated current (A), cross-sectional area (mm²), AWG:	Anbotek Anbotek Anb	botek
Anbotek	Protective current rating (A), cross-sectional area (mm²), AWG	Anbotek Anbotek	Anborek
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω) , voltage drop (V) , test current (A) , duration (min)	otek Anbotek Anbotek	N/A
2.6.3.5	Colour of insulation:	upotek Aupore Ali	N/A
2.6.4	Terminals	Vupotek Vupote Vup	N/A
2.6.4.1	General	anbotek Anbote K	N/A
2.6.4.2	Protective earthing and bonding terminals	Anbotek Anboten	N/A
Anbotek	Rated current (A), type, nominal thread diameter (mm):	otek Anbotek Anbotek	Aupo.
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	hotek Anbotek Anbo	N/A
2.6.5	Integrity of protective earthing	Anbor An hotek Ar	N/A
2.6.5.1	Interconnection of equipment	Anbor And Lotek	N/A
MOSE.	BU. 16k -160, MI.	Woter Die	E V

Components in protective earthing conductors

2.6.5.2



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York	IEC 60950-1	All stek appoten	Anbo
Clause	Requirement – Test	Result - Remark	Verdic
Pupor	and protective bonding conductors	disk Aupoto Aur	Ant
2.6.5.3	Disconnection of protective earth	abotek Anbote Ans	N/A
2.6.5.4	Parts that can be removed by an operator	anbotek Anbote And	N/A
2.6.5.5	Parts removed during servicing	Anbotek Anbote An	N/A
2.6.5.6	Corrosion resistance	Anbotek Anbotek	N/A
2.6.5.7	Screws for protective bonding	ok hotek Anboten	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system	potek Anbotek Anbotek	N/A
ek Ant	ok hotek Anbotes Anso tek	nbotek Anboth An	otek
2.7	Overcurrent and earth fault protection in primary of	circuits Annual	N/A
2.7.1	Basic requirements	Class III equipment	N/A
Anbotek	Instructions when protection relies on building installation	lak Anbotek Anbotek	N/A
2.7.2	Faults not simulated in 5.3.7	botek Anbote And	N/A
2.7.3 And	Short-circuit backup protection	hotek Anbotes Anbo	N/A
2.7.4	Number and location of protective devices	hotek Anboten Anb	N/A
2.7.5	Protection by several devices	Annotek Anbotek	N/A
2.7.6	Warning to service personnel	And otek Anbotek	N/A
Ans	K Anbotek Anbot At hotek Anbo	Anb stek anbotek	Anbo
2.8 Anu	Safety interlocks	potek Anbo tek abote	N/A
2.8.1	General principles	No safety interlocks	w N/A
2.8.2	Protection requirements	anbotek Anbots Att	N/A
2.8.3	Inadvertent reactivation	nbotek Anbote A	N/A
2.8.4	Fail-safe operation	ek abotek Anbote	N/A
abotek	Protection against extreme hazard	tek hotek Anbote	N/A
2.8.5	Moving parts	hotek Anbote	N/A
2.8.6	Overriding	Anbote An hotek Anbr	N/A
2.8.7	Switches and relays and their related circuits	Anbore Ann Motek	N/A
2.8.7.1	Separation distances for contact gaps and their related circuits (mm):	Anbotek Anbotek	N/A
2.8.7.2	Overload test	tek hotek Anbote	N/A
2.8.7.3	Endurance test	Lok hotek Anbotek	N/A
0.7.4	Electric strength test	Anbore An wotek Anbo	N/A
2.8.7.4		100	
2.8.8	Mechanical actuators	Anbore Ans atek	N/A



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'Un	IEC 60950-1	Andrek	Anboro
Clause	Requirement – Test	Result - Remark	Verdic
2.9.1	Properties of insulating materials	tek Anhoten Ando	N/A
2.9.1	Humidity conditioning	botek Anboten Anb	N/A
2.9.2	A GOLD TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO T	hotek Anbotek Anbo	IN/A
2.9.3	Relative humidity (%), temperature (°C)	And Anbotek An	NI/A
2.9.3 2.9.4	Grade of insulation	Anbo h Anbotek	N/A
2.9.4	Separation from hazardous voltages	Aupo kek upotek	N/A
Anbo	Method(s) used	ek Vupo, W. Polek	Aup
2.10	Clearances, creepage distances and distances thr	ough inculation	N/A
2.10.1	General	ough insulation	101
2.10.1	DO N. MARCON AND	An Anhoter An	N/A
2.10.1.1	Frequency	An Anbotek	N/A
Yel	Pollution degrees	K notek antotek	N/A
2.10.1.3	Reduced values for functional insualtion	Anbe Anbetek	N/A
2.10.1.4	Intervening unconnected conductive parts	otek Anbo kek nbote	N/A
2.10.1.5	Insulation with varying dimensions	Anbotek Anbot Al.	N/A
2.10.1.6	Special separation requirements	Antotek Anboto An	N/A
2.10.1.7	Insulation in circuits generating starting pulses	A. Abotek Anbote	N/A
2.10.2	Determination of working voltage	ik abotek Anbotek	N/A
2.10.2.1	General	An. Botek Anbotek	N/A
2.10.2.2	RMS working voltage	ote And Arek Anbote	N/A
2.10.2.3	Peak working voltage	inboten Anbe sek inb	N/A
2.10.3	Clearances	Anbotek Anbo Anbo A.	N/A
2.10.3.1	General	anbotek Anbot	N/A
2.10.3.2	Mains transient voltages	k abotek Anbote	N/A
abotek	a) AC mains supply·····:	lok hotek Anbote	N/A
k abote	b) Earthed d.c. mains supplies ·····:	or An hotek Anbote	N/A
ok Ar.	c) Unearthed d.c. mains supplies ·····::	inbote Ann hotek Anbr	N/A
or M	d) Battery operation ·····:	Anbore K Ant wotek	N/A
2.10.3.3	Clearances in primary circuits	Anbote And atek	N/A
2.10.3.4	Clearances in secondary circuits	Aupoten Aupo	N/A
2.10.3.5	Clearances in circuits having starting pulses	otek Anbotek Anbot	N/A
2.10.3.6	Transients from a.c. mains supply:	Lotek Anbotek Anbote	N/A
2.10.3.7	Transients from d.c. mains supply:	nb stek nbotek Anbo	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems:	Anbotek Anbotek Ar	N/A
2.10.3.9	Measurement of transient voltage levels	hotek Anbote	N/A



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otok.	IEC 60950-1	VII.	Anbo
Clause	Requirement – Test	Result - Remark	Verdict
Anbo	a) Transients from a mains suplply	tek Anbor An	N/A
Rupo	For an a.c. mains supply:	Potok Vipore VIII	N/A
tek Vupo	For a d.c. mains supply:	Anbotek Anbote Ant	o ^{to} N/A
Posek Vi	b) Transients from a telecommunication network :	anbotek Anbote An	N/A
2.10.4	Creepage distances	W. Whoter Pubote.	N/A
2.10.4.1	General	ek abotek Anbotek	N/A
2.10.4.2	Material group and caomparative tracking index	tek botek Anboten	N/A
ek abot	CTI tests	both Amborek Ambore	b.
2.10.4.3	Minimum creepage distances	Anbote And Botek Anh	N/A
2.10.5	Solid insulation	Anbote And Motek	N/A
2.10.5.1	General	Anbote. K Anb	N/A
2.10.5.2	Distances through insulation	sk Auporen Auto	N/A
2.10.5.3	Insulating compound as solid insulation	potek Anbotek Anbo	N/A
2.10.5.4	Semiconductor devices	hotek Anbotek Anbo	N/A
2.10.5.5	Cemented joints	Anbotek Anbotek Anb	N/A
2.10.5.6	Thin sheet material	And atek Anbotek	N/A
2.10.5.7	Separable thin sheet material	And otek anbotek	N/A
Anto	Number of layers (pcs):	Anbo tek anbotek	Pupo
2.10.5.8	Non-separable thin sheet material	Joseph Andor Lek abotel	N/A
2.10.5.9	Thin sheet material – standard test procedure	Anbotek Anbote An	™ N/A
Joseph Vul	Electric strength test	anbotek Anbot Anto	hotek_
2.10.5.10	Thin sheet material – alternative test procedure	anbotek Anbote A	N/A
Anbotek	Electric strength test	k abotek Anbote	Vun
2.10.5.11	Insulation in wound components	tek hotek Anbote	N/A
2.10.5.12	Wire in wound components	ok Anbotek Anbote	N/A
rek ab	Working voltage:	Inbote Am botek Anbo	N/A
or Ar.	a) Basic insulation not under stress:	Anbote Ans	N/A
'upote k	b) Basic, supplemetary, reinforced insulation:	Anbote And otek	N/A
Anbotek	c) Compliance with Annex U	Anbotek Anbotek	N/A
Anbotel Anbotel	Two wires in contact inside wound component; angle between 45° and 90°	hbotek Anbotek Anbotek	N/A
2.10.5.13	Wire with solvent-based enamel in wound components	Anbotek Anbotek Ar	N/A
hotek	Electric strength test	rek vipoten	N/A



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	IEC 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
Pupore	Routine test	tek Anbore And	N/A
2.10.5.14	Additional insulation in wound components	botek Anboteh Anbo	N/A
2.10.0.14	Working voltage	abotek Anboten Anbo	N/A
abotek P	- Basic insulation not under stress	Anbotek Anbotek An	N/A
abotek	- Supplemetary, reinforced insulation	Ant Hotek Anbotek	N/A
2.10.6	Construction of printed boards	-K Notek Anbotek	N/A
2.10.6.1	Uncoated printed boards	e. And otek Anbotek	N/A
2.10.6.2	Coated printed boards	poter Anbe stek Anbott	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	Anbotek Anbotek Anh	N/A
2.10.6.4	Insulation between conductors on different layers of a printed board	Anbotek Anbotek	N/A
Anb	Distance through insulation	Anbo tek abotek	N/A
Anbo	Number of insulation layers (pcs)	potek Anbour Anbore	N/A
2.10.7	Component external terminations	Anbotek Anbote Am	N/A
2.10.8	Tests on coated printed boards and coated components	Anbotek Anbotek And	N/A
2.10.8.1	Sample preparation and preliminary inspection	Anbo. Ar. botek	N/A
2.10.8.2	Thermal conditioning	k Anbor An hotek	N/A
2.10.8.3	Electric strength test	otek Anbote And	N/A
2.10.8.4	Abrasion resistance test	abotek Anbote And	
2.10.9	Thermal cycling	abotek Anbote Anb	N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound	Anbotek Anbotek A	N/A
2.10.11	Tests for semiconductor devices and cemented joints	k Anbotek Anbotek	N/A
2.10.12	Enclosed and sealed parts	Att Stek Shotel	N/A

3	WIRING, CONNECTIONS AND SUPPLY	Anbore And Stek	hotek P
3.1	General	Anbotes, Anbo tek	$^{nbo}\mathbf{P}^{K}$
3.1.10ter	Current rating and overcurrent protection	The cross-sectional area of internal wires is adequate for the current they are intended to be carried	Potek Anbote Anbote
3.1.2	Protection against mechanical damage	Aupor Auporak Aupo	b Vu
3.1.3	Securing of internal wiring	Anbote Am atek	poten P
3.1.4	Insulation of conductors	Anbote And stek	nbo'P'
3.1.5	Beads and ceramic insulators	Anbotek Anbo.	N/A



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OI WO.	The state of the s	M.D. II IDIE I AND	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Clause	Requirement – Test	Result - Remark	Verdict
0.4.0	Lo market Lating of the Annual Control of th	No screws are used as	N HAD
3.1.6 Anbotek	Screws for electrical contact pressure	electrical connections	N/A
3.1.7	Insulating materials in electrical connections	No such materials	N/A
3.1.8	Self-tapping and spaced thread screws	No such screws	N/A
3.1.9	Termination of conductors	Anbour colonia Anii	N/A
Anboro	10 N pull test	Antote And	N/A
3.1.10	Sleeving on wiring	olek Anboter Anbo	N/A
Anbote.	A Stek Viporek Wipore Wil	botek Anbotek Anbo	lek .
3.2	Connection to a mains supply	Anbotek Anbotek Anbo	N/A
3.2.1	Means of connection	And Anbotek Ar	N/A
3.2.1.1	Connection to an a.c. mains supply	Anbotek Anbotek	N/A
3.2.1.2	Connection to a d.c. mains supply	kupo tek upotek	N/A
3.2.2	Multiple supply connections	otok Arbo kek abotek	N/A
3.2.3	Permanently connected equipment	upotek Aupor Ali	N/A
ok Aupo,	Number of conductors, diameter of cable and	Anborek Anbore An	otek
potek Ani	conduits (mm)	hotek Anbote An	wate _K
3.2.4	Appliance inlets	k hotek Anbote	N/A
3.2.5	Power supply cords	K notek Anboten	N/A
3.2.5.1	AC power supply cords	otek Anbotek	N/A
K Ans	Туре	Note: And stek mbot	el An'
otek Ant	Rated current (A), cross-sectional area (mm²), AWG	Anbotek Anbotek An	potek _
3.2.5.2	DC power supply cords	And otek anbotek	N/A
3.2.6	Cord anchorages and strain relief	Anbotek nbotek	N/A
Aug	Mass of equipment (kg), pull (N)	ter Aupon by Profek	A-por
Aupor	Longitudinal displacement (mm)	thotek Anbott Am	K -Ani
3.2.7	Protection against mechanical damage	nbotek Anbote Am	o [™] N/A
3.2.8	Cord guards	abotek Anbote An	N/A
inbotek b	Diameter or minor dimension D (mm); test mass (g)	: Anbotek Anbotek	Anbotek
Aupor	Radius of curvature of cord (mm)	ok Aupole Aur.	ANDOLE
3.2.9	Supply wiring space	botek Anbores Anso	N/A
K Aupote	And otek Anbotek Anbot Ak	hotek Anbotes Anbo	-tel
3.3 Anb	Wiring terminals for connection of external condu	ctors Anbotel Anb	N/A
3.3.1	Wiring terminals	No such wiring terminals	N/A
	Connection of non-detachable power supply	. 400	N/A



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'UR	IEC 60950-1	Anbe k Antek	Aupore		
Clause	Requirement – Test	Result - Remark	Verdict		
3.3.3	Caracutation la Antonie Antoni	dek Anboten Anbo	1000		
2000	Screw terminals	hotok Anhotek Anho	N/A		
3.3.4	Conductor sizes to be connected	Me Anbotek Anbo	N/A		
	Rated current (A), cord/cable type, cross- sectional area (mm²):	Anbotek Anbotek An	occ		
3.3.5	Wiring terminal sizes	Annotek Anbotek	N/A		
Anbotek	Rated current (A), type, nominal thread diameter (mm)				
3.3.6 Marie 1	Wiring terminal design	otek Anbotek Anbo	N/A		
3.3.7	Grouping of wiring terminals	otek anbotek Anbot	N/A		
3.3.8	Stranded wire	Anborek Ani	N/A		
ip, sek	anbotek Anbotek Anbotek	Antio tek abotek	Aupoter		
3.4	Disconnection from the mains supply	Anbos Ak hotek	N/A		
3.4.1	General requirement	Class III equipment	N/A		
3.4.2	Disconnect devices	potek Anbole And	N/A		
3.4.3	Permanently connected equipment	No such equipment	N/A		
3.4.4	Parts which remain energized	hotek Anbotes Anti	N/A		
3.4.5	Switches in flexible cords	No switch used	N/A		
3.4.6	Number of poles – single-phase and d.c. equipment	ek Anbotek Anbotek	N/A		
3.4.7	Number of poles – three-phase equipment	Notek Anbotes Anbo	N/A		
3.4.8	Switches as disconnect devices	botek Anbotek Anbo	N/A		
3.4.9	Plugs as disconnect devices	Ann otek Anbotek Anb	N/A		
3.4.10	Interconnected equipment	No such equipment	N/A		
3.4.11	Multiple power sources	Anto tek abotek	N/A		
Anbo	nbotek Anbote And Anbote	Aubor An Potek	Anbot		
3.5 Andrew	Interconnection of equipment	botek Anbort And hotel	PAnt		
3.5.1	General requirements	nbotek Anbote Ane	Lek P		
3.5.2	Types of interconnection circuits:	Connect to SELV circuits	P		
3.5.3	ELV circuits as interconnection circuits	No ELV circuit	N/A		
3.5.4	Data ports for additional equipment	Ar hotek Anbotek	N/A		
Al. hotek	Anboten Anbo	And sotek Anbotek	Anbo		
4 Am	PHYSICAL REQUIREMENTS	pote Ann otek anbotek	Panh		
4.1 Ann	Stability	Anboten Anbo tek nbo	N/A		
oten Ann	Angle of 10°	<7Kg	o N/A		
'upotek	Test force (N)	Anbotek Anbote Ar	N/A		
4.2 otek	Mechanical strength	k wotek Anbote	P. P.		



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	IEC 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
nboten	And whole Andrew Andrew	ok hotel Ande	P.,
4.2.1	General	ok notek Anbote	N/A
4.2.2	Steady force test, 10 N	bote K Ans otek Anbot	N/A
4.2.3	Steady force test, 30 N	Anbote Anb tek on	N/A
4.2.4	Steady force test, 250 N	Anbotek Anbo Lek	N/A
4.2.5	Impact test	anbotek Anbou	N/A
Anbotek	Fall test	ek abotek Anbote	N/A
abotek	Swing test	ok hotek Anbotes	N/A
4.2.6	Drop test; height (mm):	1000m, 3 times	P An
4.2.7	Stress relief test	Anbore And Stek And	N/A
4.2.8	Cathode ray tubes	Anbotes Anbo	N/A
Anbores	Picture tube separately certified:	Anbotek Anbo	N/A
4.2.9	High pressure lamps	No high pressure lamps in the equipment.	N/A
4.2.10	Wall or ceiling mounted equipment; force (N):	Not intended to be mounted on a wall or ceiling.	N/A
4.2.11	Rotating solid media	And Anbotek Anb	N/A
*ek	Test to cover on the door:	And Lek botek	N/A

4.3	Design and construction		Poote.
4.3.1	Edges and corners	The outer surface of the equipment is smooth	PAnbo
4.3.2	Handles and manual controls; force (N):	Anbrew Anbrew Anbrew	N/A
4.3.3	Adjustable controls	No adjustable controls	N/A
4.3.4	Securing of parts	Anbote K Ant	AnbPek
4.3.5	Connection by plugs and sockets	k Anbote And stek	N/A
4.3.6	Direct plug-in equipment	otek Anboter Anbo	N/A
ek Anbote	Torque	notek Anbotek Anbot	- P.
botek Anb	Compliance with the relevant mains plug standard:	Anbotek Anbotek Anbo	N/A
4.3.7	Heating elements in earthed equipment	No such elements	N/A
4.3.8	Batteries	Anbotek Anbote	N/A
Anbotek	- Overcharging of a rechargeable battery	tek nbotek Anbote	N/A
ak Anbotel	- Unintentional charging of a non-rechargeable battery	hotek Anbotek Anbotek	N/A
potek Anb	- Reverse charging of a rechargeable battery	anbotek Anbot Anb	N/A
upotek A	- Excessive discharging rate for any battery	abotek Anbote Ar	N/A
4.3.9	Oil and grease	No oil and grease	N/A



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AND OK	IEC 60950-1	Anbo	Anbote	
Clause	Requirement – Test	Result - Remark	Verdict	
4.3.10	Dust, powders, liquids and gases	No dust, powders, liquids and gases	N/A	
4.3.11	Containers for liquids or gases	No such containers	N/A	
4.3.12	Flammable liquids:	No flammable liquid	N/A	
notek	Quantity of liquid (I)	Ann Otek Anbotek	N/A	
Vu. Potek	Flash point (°C)		N/A	
4.3.13	Radiation	Anb tek nbotek	N/A	
4.3.13.1	General	botek Anbo ek abote	N/A	
4.3.13.2	Ionizing radiation	No ionizing radiation	N/A	
botek Ar	Measured radiation (pA/kg)	anbotek Ambote Am	wotak	
abotek	Measured high-voltage (kV)	abotek Anbote	Tun Tek	
abotek	Measured focus voltage (kV):	ok hotek Anbotes	Ano	
hotek	CRT markings:	K notek Anbotek	Anbo	
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	N/A	
botek An	Part, property, retention after test, flammability classification			
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	Ann otek Anbotek A	N/A	
4.3.13.5	Lasers (including laser diodes) and LEDs	Anbotek anbotek	N/A	
4.3.13.5.1	Lasers (including laser laser diodes)	Anbo tek nbotek	N/A	
Anbu	Laser class	Class I	-An	
4.3.13.5.2	Light emitting diodes (LEDs)	nbotek Anbot An	tek -	
4.3.13.6	Other types	abotek Anbote Ann	N/A	
abotek	Anbote And Lotek Anboten Anbo	botek Anbote A	up of ek	
4.4	Protection against hazardous moving parts	ok notek Anboten	N/A	
4.4.1	General	An otek Anbotek	N/A	
4.4.2	Protection in operator access areas:	cote, Vuporek	N/A	
lotek Anb	Household and home/office document/media shredders	(see Annex EE)	N/A	
4.4.3	Protection in restricted access locations:	And otek anbotek Ar	N/A	
4.4.4	Protection in service access areas	Anbo tek abotek	N/A	
4.4.5	Protection against moving fan blades	Aupo. Min spotek	N/A	
4.4.5.1	General	otek Anbor An notek	N/A	
Anbore	Not considered to cause pain or injury. a):	obotek Anbote, And	[™] N/A	
otek Anb	Is considered to cause pain, not injury. b):	abotek Anboten Anbo	N/A	
abotek P	Considered to cause injury. c):	hotek Anbotek An	N/A	
4.4.5.2	Protection for users	An tek shotek	N/A	



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or hotek	IEC 60950-1	D W. Blek Antole	Ant
Clause	Requirement – Test	Result - Remark	Verdic
Pupo.	Use of symbol or warning:	tek Anbo An abotek	N/A
4.4.5.3	Protection for service persons	porek Vipor VIII	N/A
lak Au	Use of symbol or warning:	Aupore Aupore Au	N/A
bolek	Anbote An hotek Anbotek Anbo	Anbotek Anbote An	Lotek L
4.5°°°°	Thermal requirements	Anboten Anboten	Pre
4.5.1	General	ek abotek Anboten	P
4.5.2	Temperature tests	ok hotek Anbotek	P
ok V	Normal load condition per Annex L:	pote And notek Anbor	_ P
4.5.3	Temperature limits for materials	(see appended table 4.5)	o ^{tet} P
4.5.4	Touch temperature limits	(see appended table 4.5)	nbotek
4.5.5	Resistance to abnormal heat:	(see appended table 4.5.5	N/A
Anbotek	Aupor Andrew Andrew Andrew	tek anbotek Anbote	P//
4.6 Nabote	Openings in enclosures	tek nbotek Anbote	N/A
4.6.1	Top and side openings	Bo Lak Shotek Anbote	N/A
rek bi.	Dimensions (mm):	Anbore Ant hotek Ant	otek -
4.6.2	Bottoms of fire enclosures	Anbore K Ant Lotek	N/A
Anbore	Construction of the bottomm, dimensions (mm) .:	Anboren Anbo	nbotek
4.6.3	Doors or covers in fire enclosures	ek Anbotek Anbo	N/A
4.6.4	Openings in transportable equipment	otek Anbotek Anbot	N/A
4.6.4.1	Constructional design measures	otek anbotek Anbote	N/A
otek	Dimensions (mm):	Anbotek Anb	\ <u>-</u>
4.6.4.2	Evaluation measures for larger openings	Anbo rek abotek	N/A
4.6.4.3	Use of metallized parts	Anbore An hotek	N/A
4.6.5	Adhesives for constructional purposes	K Anbot Am	N/A
Anbore	Conditioning temperature (°C), time (weeks):	otek Anbote Anti-	- n
K Anbo	te Ans stek Anbotek Anbos Ak	hotek Anboten And	tek
4.7	Resistance to fire	An-	P
4.7.1	Reducing the risk of ignition and spread of flame	And otek Ambotek A	Noor P
Anbotek	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	Anbore abote
Anbotek	Method 2, application of all of simulated fault condition tests	otek Anbotek Anbotek	N/A
1.7.2	Conditions for a fire enclosure	hbotek Anbo kek abo	[™] N/A
1.7.2.1	Parts requiring a fire enclosure	Anbotek Anbote Anbote	N/A
4.7.2.2	Parts not requiring a fire enclosure	abotek Anbote Al	N/A
4.7.3	Materials	rek abotes	VUD.



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Aupor A	IEC 60950-1	Anbote And Otek	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
abote	And whole Andrew	ok hotek Anbe	h.
4.7.3.1	General	PCB:V-0	Pupo.
4.7.3.2	Materials for fire enclosures	(see appended table 1.5.1)	N/A M
4.7.3.3	Materials for components and other parts outside fire enclosures	Anbotek Anbotek Ant	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures	(see appended table 1.5.1)	N/A
4.7.3.5	Materials for air filter assemblies	No air filter assemblies.	N/A
4.7.3.6	Materials used in high-voltage components	No high-voltage components	N/A
stek Anbot	er Anbour Arbore Ar	nbotek Anbotek Anbote	Y. Vie
5	ELECTRICAL REQUIREMENTS AND SIMULATE	D ABNORMAL CONDITIONS	P

5 tek	ELECTRICAL REQUIREMENTS AND SIMULATED	D ABNORMAL CONDITIONS	P
5.1	Touch current and protective conductor current	Anbo Lek abotek	N/A
5.1.1	General	Anbot Ak hotek	N/A
5.1.2	Configuration of equipment under test (EUT)	sk Aupole Aur Otek	N/A
5.1.2.1	Single connection to an a.c. mains supply	otek Anbores Anb	N/A
5.1.2.2	Redundant multiple connections to an a.c. mains supply	Anbotek Anbotek Anb	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	Anbotek Anbotek	N/A
5.1.3	Test circuit	k hotek Anboten	N/A
5.1.4	Application of measuring instrument	An otek Anbotek	N/A
5.1.5	Test procedure	ote Ann otek Anbote	N/A
5.1.6	Test measurements	Anbote, Anb	N/A
bose, Vu	Supply voltage (V)	Anbotek Anbos An	botek
Anbotek	Measured touch current (mA)	Anbotek Anbot	hotek
Anbotek	Max. Allowed touch current (mA):	k abotek Anbote	All - ole
nbotek	Measured protective conductor current (mA):	tek shotek Anbote	And
K wote	Max. Allowed protective conductor current (mA) .:	or Ambotek Ambote	-Anb
5.1.7	Equipment with touch current exceeding 3,5 mA	inbote K Anti-otek Anbr	N/A
5.1.7.1	General ::	Anbote And Stek	N/A
5.1.7.2	Simultaneous multiple connections to the supply	Anbotek Anb	N/A
5.1.8 otek	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	otek Anbotek Anbotek	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	nbotek Anbotek Anbo	N/A
abotek P	Supply voltage (V):	hotek Anboter Ar	P. STEK
tek	Measured touch current (mA):	And stek abotek	Vupo.



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'upo ok	IEC 60950-1	Anbor K All otek	Anboten
Clause	Requirement – Test	Result - Remark	Verdict
Aupore * 61	Max. Allowed touch current (mA):	otok Anhoter Ann	Anb
5.1.8.2	Summation of touch currents from telecommunication networks	"porest Autore, Vuos	N/A
otek L	a) EUT with earthed telecommunication ports:	Anbo kek abotek An	N/A
Anbotek	b) EUT whose telecommunication ports have no reference to protective earth	Anbotek Anbotek	N/A
- Anboro	Aug Village Villages Villages Villages	stek Aupoter Aupotek	L.
5.2 Annotes	Electric strength	otek Anbotek Anbo	N/A
5.2.1	General	root Anborr	N/A
5.2.2	Test procedure	Anbor Air sotek Ant	N/A
por V	notek Anboten Anbo sek shotek	Anbote And Atek	nbotek
5.3	Abnormal operating and fault conditions		Brek
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P Anbo
5.3.2	Motors	(see appended Annex B)	N/A
5.3.3	Transformers	anbotek Anbote An	N/A
5.3.4	Functional insulation:	By Short circuit	nteP
5.3.5	Electromechanical components	hotek Anborek A	Pek Pek
5.3.6	Audio amplifiers in ITE:	K And Sotek Anbotek	N/A
5.3.7	Simulation of faults	And otek Anbotek	PP PP
5.3.8	Unattended equipment	boten Anbotek Anbotel	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions	Anbotek Anbotek Anb	Itek P
5.3.9.1	During the tests	Arra otek Anbotek A	nbote P.K
5.3.9.2	After the tests	No hazards.	Aupor
Anbo	botek Anbote Anbote Anbot	Anbor Ali notek	Anbot
6 Anbox	CONNECTION TO TELECOMMUNICATION NET	WORKS	N/A
6.1 Anberr	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	Anbotek Anbotek Anbo	N/A
6.1.1	Protection from hazardous voltages	And stek anbotek	N/A
6.1.2	Separation of the telecommunication network from earth	Stek Anbotek Anbotek	N/A
6.1.2.1 And 10	Requirements	Not connect to telecommunication networks	N/A
oto. Anb	Supply voltage (V)::	Anbotes Anb.	potek
nbotek p	Current in the test circuit (mA):	Anbotek Anbot Ar	hotek
6.1.2.2	Exclusions:	anbotes.	N/A



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Aupore	Vu. Potek	Anbotek	IEC 6095	50-1	Annatek	Anbotek
Clause	Requireme	ent – Test	Anbo	Result - Rem	ark And	Verdict
060	VUPO	he.	K HOEE	PLUD	OK NOOF	P.1.

6.2	Protection of equipment users from overvoltages on telecommunication networks	N/A
6.2.1	Separation requirements	N/A
6.2.2	Electric strength test procedure	N/A
6.2.2.1	Impulse test	N/A
6.2.2.2	Steady-state test	N/A
6.2.2.3	Compliance criteria	N/A
6.3	Protection of the telecommunication wiring system from overheating	N/A
Ve. Vun	Max. Output current (A):	otek p
Upoter An	Current limiting method:	hotek
1.6	415 MV 105 MV	10 to 100

7 abotek	CONNECTION TO CABLE DISTRIBUTION SYSTEMS		N/A
7.1 Anbote	General	Not connect to cable distribution system	N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	Anbotek Anbotek Anb	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	Anbotek Anbotek	N/A
7.4 Anbote	Insulation between primary circuits and cable distribution systems	botek Anboteh Anbotel	N/A
7.4.1	General	Anbotes Anbo tek ab	N/A N
7.4.2	Voltage surge test	Anbotek Anbow As	N/A
7.4.3	Impulse test	abotek Anbote A	N/A

A motek	ANNEX A, TESTS FOR RESISTANCE TO HEAT	AND FIRE	N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	inbotek Anbotek Anbotek	N/A
A.1.1	Samples	Anbote K And Lotek At	hotek-
Aupote A	Wall thickness (mm)	Anbores Anbo	upotek.
A.1.2	Conditioning of samples; temperature (°C):	Anbotek Anbo	N/A
A.1.3	Mounting of samples	tek Anbotek Anbot	N/A
A.1.4	Test flame (see IEC 60695-11-3)	stek spotek Anbore	N/A
tek nb	Flame A, B, C or D	hoo tek abotek Anbo	- Vu
A.1.5	Test procedure	Anbox An hotek An	N/A
A.1.6	Compliance criteria	Anboto And otek	N/A
Anbore	Sample 1 burning time (s)	Anbotes Anbo	"Dotek



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'U.,	IEC 60950-1	And	Vupor
Clause	Requirement – Test	Result - Remark	Verdict
Anbole	And Andrew Andrew	tok Arboten Ando	2000
Anbote	Sample 2 burning time (s)	nek motek Anbor	'./κ ' Σ'
lek , up	Sample 3 burning time (s):	be the abotek Anbor	P
A.2	Flammability test for fire enclosures of movable eq not exceeding 18 kg, and for material and compon enclosures (see 4.7.3.2 and 4.7.3.4)		N/A
A.2.1	Samples, material	Anbote. And	
Aupore	Wall thickness (mm)	ek Anbotek Anbo	
4.2.2 _{***}	Conditioning of samples; temperature (°C):	otek Anbotek Anbot	N/A
A.2.3	Mounting of samples:	box An hotek Anbott	N/A
A.2.4	Test flame (see IEC 60695-11-4)	Anbore K Ant Sotek Ant	N/A
DOL B	Flame A, B or C	Anboton Ann	nbotek
A.2.5	Test procedure	Anbotes Anbe	N/A
A.2.6	Compliance criteria	ek Anbotek Anbot	N/A
nbotek	Sample 1 burning time (s):	tek abotek Anbote	Pun.
ek abc	Sample 2 burning time (s)	Por William Potek Wilhous	- br
brit.	Sample 3 burning time (s):	Anbott And Lotek Anb	otek
A.2.7	Alternative test acc. To IEC 60695-11-5, cl. 5 and 9	Anbotek Anbotek	N/A
botek	Sample 1 burning time (s)	k wotek Anboten	Aupa-
An	Sample 2 burning time (s)	And otek anbotek	Vapo.
Ans	Sample 3 burning time (s)		An
A.3	Hot flaming oil test (see 4.6.2)	inpotek Anbourek Anbourek	w [™] N/A
A.3.1	Mounting of samples	abotek Anbote Am	N/A
A.3.2	Test procedure	hotek Anboten A	N/A
A.3.3	Compliance criterion	K notek Anbotek	N/A
Andrek	Anbotek Anbot	Ann tek abotek	Anbox
B Ambot	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	CONDITIONS (see 4.7.2.2 and	N/A
3,1	General requirements	ins stek anbotek Anbeck	N/A
*ek	Position:	Inside enclosure	100/o
'upor	Manufacturer:	(see appended table 1.5.1)	Anboten
Aupor	Type:	(see appended table 1.5.1)	Note Office
Anboten	Rated values:	(see appended table 1.5.1)	- ~/
3.2 Ambor	Test conditions	otek Anbotek Anbote	N/A
3.3	Maximum temperatures	he tek abotek Anbu	N/A
B.4	Running overload test	Anbox An notek Ar	N/A
B.5	Locked-rotor overload test	Anbotte And Atek	N/A
"Upoge,	Test duration (days):	Apolen Anho	0/6



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Clause	Requirement – Test	Result - Remark	Verdic
Ciause	Trequirement – Test	Tresuit - Tremark	Verdic
P.D.	Electric strength test: test voltage (V)	ctel And stek anbotek	400
B.6	Running overload test for d.c. motors in secondary circuits	hotek Anbotek Anbot	N/A
B.6.1	General	And otek anbotek And	N/A
B.6.2	Test procedure	Anto tek abotek	N/A
B.6.3	Alternative test procedure	Anbor ak hotek	N/A
B.6.4	Electric strength test; test voltage (V)	olek Aupose K War	N/A
B.7 Anbou	Locked-rotor overload test for d.c. motors in secondary circuits	chotek Anbotek Anbote	N/A
B.7.1	General Annual A	Anbox Ant hotek Ant	N/A
B.7.2	Test procedure	Anboto Anti-	N/A
B.7.3	Alternative test procedure	Aupores Aupo	N/A
B.7.4	Electric strength test; test voltage (V)	tek anbotek Anbot	N/A
B.8 Note	Test for motors with capacitors	(see appended table 5.3)	N/A
B.9	Test for three-phase motors	(see appended table 5.3)	N/A
B.10	Test for series motors	Anbote K Anb	N/A
bor b	Operating voltage (V)	Anbore And	abotek
Anbore	And tek abotek Anbot K antek	Anbore And	hotek
C Anbote	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.	3) Andrew Andrew	N/A
C Anbotel	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3. Position	3) Annotes Annotes	N/A
C Anbotel	Mark Mark	3) Anbotek Anbotek	N/A
C Anbotes	Position	3) Anbotek Anbotek Anbotek Anbotek	N/A
C Anboten	Position Manufacturer	3) Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N/A
C Aupotek	Position	3) Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N/A
Votek Vupotek	Position	3) Anbotek	N/A N/A
C.1 C.2	Position Manufacturer Type Rated values Method of protection	3) Anbotek	hotek hotek
Anbotek Anbotek C.1nbotek	Position Manufacturer Type Rated values Method of protection. Overload test	3) Anbotek Anbotek	 N/A
Anbotek Anbotek C.1nbotek	Position Manufacturer Type Rated values Method of protection Overload test Insulation	3) Anbotek	 N/A N/A
C.1 pole*	Position Manufacturer Type Rated values Method of protection Overload test Insulation	Anbotek Anbotek Anbotek	 N/A N/A
C.1 C.2	Position Manufacturer Type Rated values Method of protection	Anbotek Anbotek Anbotek	 N/A N/A N/A
Anbotek Anbotek C.1nbotek	Position Manufacturer Type Rated values Method of protection. Overload test Insulation Protection from displacement of windings	Anbotek Anbotek Anbotek	 N/A N/A N/A
C.1 C.2 D	Position Manufacturer Type Rated values Method of protection Overload test Insulation Protection from displacement of windings	Anbotek Anbotek Anbotek	 N/A N/A N/A N/A
C.1 C.2 D	Position Manufacturer Type Rated values Method of protection Overload test Insulation Protection from displacement of windings	OUCH-CURRENT TESTS	 N/A N/A N/A N/A
C.1 C.2 D	Position Manufacturer Type Rated values Method of protection Overload test Insulation Protection from displacement of windings ANNEX D, MEASURING INSTRUMENTS FOR T (see 5.1.4) Measuring instrument Alternative measuring instrument	OUCH-CURRENT TESTS	 N/A N/A N/A N/A N/A



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,m	IEC 60950-1	And	Aupor
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And Andrew Andrew Andrew All	otek Amoter And	100
G Anbotek	ANNEX G, ALTERNATIVE METHOD FOR DETEI CLEARANCES	RMINING MINIMUM	N/A
G.1 Anbo	Clearances	-botek Anbote And	N/A
G.1.1	General	An Anbotek Anbotek An	N/A
G.1.2	Summary of the procedure for determining minimum clearances	Anbotek Anbotek	N/A
G.2 _{Anbote}	Determination of mains transient voltage (V)	rek Anbotek Anbo	N/A
G.2.1 Moder	AC mains supply	otek anbotek Anbot	N/A
G.2.2	Earthed d.c. mains supplies	The Per Potek Aupor	N/A
G.2.3	Unearthed d.c. mains supplies	Anbos K Andrek An	N/A
G.2.4	Battery operation::	Anbole Am otek	N/A
G.3	Determination of telecommunication network transient voltage (V):	Anbotek Anbotek	N/A
G.4	Determination of required withstand voltage (V)	An otek Anbotek	N/A
G.4.1	Mains transients and internal repetitive peaks:	poter. And tek abote	N/A
G.4.2	Transients from telecommunication networks:	Anbotek Anbo Lek	ote [¥] N/A
G.4.3	Combination of transients	abotek Anbote An	N/A
G.4.4	Transients from cable distribution systems	hotek Anbores	N/A
G.5	Measurement of transient voltages (V)	K sotek Anbotek	N/A
Andrek	a) Transients from a mains supply	And Stek Anbotek	N/A
Aug.	For an a.c. mains supply	Note: Anbo	N/A
Vulpa	For a d.c. mains supply	inbotek Anboursk his	™ N/A
otek Anl	b) Transients from a telecommunication network	nbotek Anbote K	N/A
G.6	Determination of minimum clearances:	hotek Anbotes A	N/A
hotek	Anbote And rek abotek Anbot	K Andrek Anbotek	Anbo
H America	ANNEX H, IONIZING RADIATION (see 4.3.13)	And tek nbotek	N/A
And	IK abotek Anbot K Lotek An	poten Anbo tek abotel	Ant
Anbo	ANNEX J, TABLE OF ELECTROCHEMICAL POT	ENTIALS (see 2.6.5.6)	o [™] N/A
lotek Anb	Metal(s) used	Steel	oteV
botek	inbote And Otek Anbotek Anbot	All hotek Anboten A	nbortek
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	15.3.8)	N/A
K.1 ^m Anbotek	Making and breaking capacity	No thermostat and temperatrue limiter used for thermal control circuit	N/A
K.2	Thermostat reliability; operating voltage (V):	upoter Aupo tek apo	N/A
K.3	Thermostat endurance test; operating voltage (V)	Anbotek Anbotek An	N/A
K.4	Temperature limiter endurance; operating voltage (V):	Anta abotek Anbotek	N/A



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Claring	Desuit Desuit Desuit	\/ondise
Clause	Requirement – Test Result - Remark	Verdict
K.5	Thermal cut-out reliability	N/A
K.6	Stability of operation	N/A
Yek Ani	sol Anbotek Anbotek Anbotek Anbotek Anbotek	hotek
botek	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	Anbot P.
LAT tek	Typewriters	N/A
L.2 Andre	Adding machines and cash registers	N/A
L.3 Anbote	Erasers	N/A
L.4 Anb	Pencil sharpeners	N/A
L.5	Duplicators and copy machines	N/A
L.6	Motor-operated files	N/A
L.7	Other business equipment	Pu/bose
Anbo	K abotek Anbote Kantotek Anbotek Anbotek	Anbo
M Anbox	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)	N/A
M.1	Introduction	N/A
M.2	Method A	N/A
M.3	Method B	N/A
M.3.1	Ringing signal	N/A
M.3.1.1	Frequency (Hz)	Anbox
M.3.1.2	Voltage (V)	el - An'
M.3.1.3	Cadence; time (s), voltage (V)	otek
M.3.1.4	Single fault current (mA)	wotek_
M.3.2	Tripping device and monitoring voltage:	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	N/A
M.3.2.2	Tripping device	N/A
M.3.2.3	Monitoring voltage (V):	N/A
otek Ar	botes And stek Anbotek Anbotek Anbotes Anbotes Anbotes	rek
N _{botek}	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	N/A
N.1000	ITU-T impulse test generators	N/A
N.2 Anboten	IEC 60065 impulse test generator	N/A
K Anbo	And tek abotek Anbotek Anbotek Anbotek Anbotek	rok Au
Rek NO	ANNEX P, NORMATIVE REFERENCES	
-tek	anbotek Anbotek Kn Lotek Anbotek Anbotek Anbotek	upoter
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	N/A
Anboro	- Preferred climatic categories Considered	N/A



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	IEC 60950-1	Anb. K stek	Vupote.
Clause	Requirement – Test	Result - Remark	Verdict
Pupote.	And otek amotek andor An	notek Anboten Anbo	
Anbote	- Maximum continuous voltage	Jek Joo by	N/A
stek Anb	Body of the VDR Test according to IEC60695-17	I k botek Anbotek Anbot	N/A
upotek P	Body of the VDR. Flammability class of material (min V-1)		N/A
Anboro	Anbotek Anbotek Anbo kek abot	ek Anbore And Arek	Anbotek
R Anbote	ANNEX R, EXAMPLES OF REQUIREMENTS F PROGRAMMES	OR QUALITY CONTROL	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	Arbotek Anbotek Anbote	N/A
R.2	Reduced clearances (see 2.10.3)	Anbotek Anbotek Ant	N/A
notek.	Anboten Anbotek Anbotek	An otek anbotek	Yupo,
Santa	ANNEX S, PROCEDURE FOR IMPULSE TEST	ING (see 6.2.2.3)	N/A
S.1	Test equipment	polsk Anbos An botek	N/A
S.2	Test procedure	andotek Anbote An	N/A
S.3	Examples of waveforms during impulse testing	abotek Anbotes Anti	N/A
botek A	Those Aug Otek Vipotek Vipotek	hotek Anboten Anb	rek
Anbotek Anbotek	ANNEX T, GUIDANCE ON PROTECTION AGAI	INST INGRESS OF WATER	N/A
Ann	botek Anbor All tek at	Jotek Ando K Motek	Anbote
U Anbotok	ANNEX U, INSULATED WINDING WIRES FOR INSULATION (see 2.10.5.4)	USE WITHOUT INTERLEAVED	N/A
O Aupolek		USE WITHOUT INTERLEAVED (see appended table 1.5.1)	N/A
O Aupotok Aupotok		Anbore Anbore	N/A
O Puporek		(see appended table 1.5.1)	N/A
V porek	INSULATION (see 2.10.5.4)	(see appended table 1.5.1)	nbotek - I
V.1	INSULATION (see 2.10.5.4) ANNEX V, AC POWER DISTRIBUTION SYSTE	(see appended table 1.5.1)	 N/A
V.1	INSULATION (see 2.10.5.4) ANNEX V, AC POWER DISTRIBUTION SYSTE Introduction	(see appended table 1.5.1)	N/A N/A
V V.1 V.2	INSULATION (see 2.10.5.4) ANNEX V, AC POWER DISTRIBUTION SYSTE Introduction	(see appended table 1.5.1) MS (see 1.6.1)	N/A N/A
V V.1 V.2	INSULATION (see 2.10.5.4) ANNEX V, AC POWER DISTRIBUTION SYSTE Introduction TN power distribution systems	(see appended table 1.5.1) MS (see 1.6.1)	N/A N/A N/A
V V.1 V.2 W W.1	INSULATION (see 2.10.5.4) ANNEX V, AC POWER DISTRIBUTION SYSTE Introduction TN power distribution systems ANNEX W, SUMMATION OF TOUCH CURREN	(see appended table 1.5.1) MS (see 1.6.1)	N/A N/A N/A
V V.1 V.2 W W.1 W.1.1	INSULATION (see 2.10.5.4) ANNEX V, AC POWER DISTRIBUTION SYSTE Introduction TN power distribution systems ANNEX W, SUMMATION OF TOUCH CURREN Touch current from electronic circuits	(see appended table 1.5.1) MS (see 1.6.1)	N/A N/A N/A N/A N/A
V V.1 V.2 W W.1 W.1.1	INSULATION (see 2.10.5.4) ANNEX V, AC POWER DISTRIBUTION SYSTE Introduction TN power distribution systems ANNEX W, SUMMATION OF TOUCH CURREN Touch current from electronic circuits Floating circuits	(see appended table 1.5.1) MS (see 1.6.1)	N/A N/A N/A N/A N/A
V V.1 V.2 W W.1 W.1.1 W.1.2	ANNEX V, AC POWER DISTRIBUTION SYSTE Introduction TN power distribution systems ANNEX W, SUMMATION OF TOUCH CURREN Touch current from electronic circuits Floating circuits Earthed circuits	(see appended table 1.5.1) MS (see 1.6.1)	N/A N/A N/A N/A N/A N/A N/A N/A
V V.1 V.2 W W.1 W.1.1 W.1.2 W.2 W.2.1	INSULATION (see 2.10.5.4) ANNEX V, AC POWER DISTRIBUTION SYSTE Introduction TN power distribution systems ANNEX W, SUMMATION OF TOUCH CURREN Touch current from electronic circuits Floating circuits Earthed circuits Interconnection of several equipments	(see appended table 1.5.1) MS (see 1.6.1)	N/A N/A N/A N/A N/A N/A N/A N/A



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	IEC 60950-1	Anboten
Clause	Requirement – Test Result - Remark	Verdic
Aupore	And tek abotek Anbot An atek Anboten Anbo	10
X Anbote	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)	N/A
X.1 Ant	Determination of maximum input current	N/A
X.2	Overload test procedure	N/A
botek	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbo
YATT	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	N/A
Y.1	Test apparatus:	N/A
Y.2	Mounting of test samples:	N/A
Y.3	Carbon-arc light-exposure apparatus:	N/A
Y.4	Xenon-arc light exposure apparatus:	N/A
anbotek	Anborek Anborek Anborek Anborek Anborek	Am
Z _{abotek}	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	N/A
bote	k Anbote And tek Anbotek Anbotek Anbotek Anbotek	Aup
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	N/A
e. Vun	tek nbotek Anber K Notek Anborek Anber	potek
ВВ	ANNEX BB, CHANGES IN THE SECOND EDITION	hotek
anbotek	Anbore Anborek Anborek Anborek Anbore	Por Cotek
CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters	N/A
CC.1	General	N/A
CC.2	Test program 1	S. V.
CC.3	Test program 2	N/A
oto. V	otek potek Anbotek Anbotek Anbotek	abotek
DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment	N/A
DD.1	General	N/A
DD.2	Mechanical strength test, variable N:	N/A
DD.3	Mechanical strength test, 250N, including end stops:	N/A
DD.4	Compliance	N/A
notek	Anbote And tek shotek Anbot K stek Anbote	YUDO.
EE otek	ANNEX EE, Household and home/office document/media shredders	N/A
EE.1	General	N/A
EE.2	Markings and instructions	N/A
k Anbo	Use of markings or symbols:	N/A
otek An	Information of user instructions, maintenance	N/A
	and/or servicing instructions	nbo



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upor	IEC 60950-1	Anbore And And	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
"Abole"	Anbot Anbot Anbot	ok boten Ande	P
EE.4	Disconnection of power to hazardous moving parts	potek Anbotek Anbotek	N/A
tek Ar	Use of markings or symbols	hotek Anbote. And	N/A
EE.5	Protection against hazardous moving parts	An otek Anboten An	N/A
notek .	Test with test finger (Figure 2A)	And stek anbotek	N/A
And	Test with wedge probe (Figure EE1 and EE2):	Anbo ok hotek	N/A



Anboten	Anbotek Anbotek	EN 60950-1	Anbotek	Aupor Fek	photek
Clause	Requirement – Test	Anbote And hote	Result - Remark	Anbo	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

Clause	Requirement + Test		R	Result - Rema	ark	Verdict
botek I		Clauses, subclauses, notes, tables and figures which are additional to those in IEC60950-1 and it's amendmets are prefixed "Z"				
Contents A2:2013)	Add the following and Annex ZA (normative Annex ZB (normative Annex ZD (informative) N p p) S e) IE	ormative reference Sublications with the Sublications Pecial national co EC and CENELECT Exible cords	neir correspo	onding European	Anbotek Anbotek
General	Delete all the "countraccording to the follown of t		reference docum Note 2 & 3 Note Note Note 2 Note 2 Note 3. Note 4 Note 3 & 4 Note 2 Note Note 2	1.5.7.1 1.7.2.1 2.3.2 2.6.3.3	Note Note 4, 5 & 6 Note Note 2 & 3 Note 3 Note 2 Note 2 Note Note 1	Anbotek Anbotek Anbotek Anbote Anbote
General A1:2010)	Delete all the "countr 1:2005/A1:2010) acc	y" notes in the ording to the fo	reference docum bllowing list:	ent (IEC 609	950-	ek P
	1.5.7.1 Note 6.2.2.1 Note 2	6.1.2.1 EE.3	Note 2 Note			borotek

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nbott A	EN 60950-	otek Anbote And tek	abotek
Clause	Requirement – Test	Result - Remark	Verdict
General	Ann Mar and the Announce of	L NOOR LUE DOOR AND	Rubo
(A2:2013)	Delete all the "country" notes in the reference 1:2005/A2:2013) according to the following list	st: Anbore Anti-	TABK ATT
	2.7.1 Note * 2.10.3.1 N 6.2.2. Note	ote 2	botek
	* Note of secretary: Text of Common Modification	ation remains unchanged.	Anbotek
Anbore	Vur Stek Vupotek Wupo, W	notek Anbote, And	abotek
1.1.1 (A1:2010)	Replace the text of NOTE 3 by the following. NOTE 3 The requirements of EN 60065 may also be use equipment. See IEC Guide 112, Guide on the safety of r 60065 applies.		P Anbo
1.3.Z1	Add the following subclause:	Lotek Anbote, And	N/A
	1.3.Z1 Exposure to excessive sound pressur	e Anbo Ak hotek Ar	Poro
	The apparatus shall be so designed and	tek Anbote Anb	abotek
	constructed as to present no danger when us	sed w hotek Anborr	YII.
	for its intended purpose, either in normal	abote Ant tek abotek	Aupo
	operating conditions or under fault conditions		nbo
	particularly providing protection against expo to excessive sound pressures from headphol or earphones.		ek Ar
	NOTE Z1 A new method of measurement is described.	ihed More Amount	Yek
	in EN 50332-1, Sound system equipment:	Ame tek abotek An	100
	Headphones and earphones associated with porta		upoter
	audio equipment - Maximum sound pressure level measurement methodology and limit consideration		w. otek
	Part 1: General method for "one package equipme		And
	and in EN 50332-2, Sound system equipment:	aboten Anbo Anbo	Anbor
	Headphones and earphones associated with porta audio equipment - Maximum sound pressure level		1. 10
	measurement methodology and limit consideration		Pu.
	Part 2: Guidelines to associate sets with headphore		optek
A12:2011)	coming from different manufacturers.	ek spotek Pupor VII	OKI/A
712.2011)	In EN 60950-1:2006/A12:2011	All Stek Anbotek	N/A
	Delete the addition of 1.3.Z1 / EN 60950-1:20	006	Aupore.
	Delete the definition of 1.2.3.Z1 / EN 60950- 1:2006/A1:2010	Anbotek Anbotek Anbotek	Anbote
.5.1 And a	Add the following NOTE:	Notek Anbore And	N/A
	NOTE Z1 The use of certain substances in electric	cal Andrew	-K
	and electronic equipment is restricted within the E	U: Inbo	Cie.
Added info*)	see Directive 2002/95/EC New Directive 2011/65/11 *	ek anboten Anbo	notek
1.7.2.1	In addition, for a PORTABLE SOUND SYSTE	M. v votek anbote	N/A
A1:2010)	the instructions shall include a warning that	And Andek Hotek	Anbou
	excessive sound pressure from earphones an	d otek Anbore And	37000
potek	headphones can cause hearing loss.	And Anbote	Vien
1.7.2.1	In EN 60950-1:2006/A12:2011	Ambote Am tek abote	N/A
A12:2011)	Delete NOTE Z1 and the addition for Portable Sound System.	e Anbotek Anbotek Anb	ofek l
	Add the following clause and annex to the existing standard and amendments.	Anbore And Anbotek	rbotek
	Zx Protection against excessive sound pro	essure from personal music	Vupore
	players	K week Mupo	h



484	EN 60950-1	No. Pore.	Pupo
lause	Requirement – Test	Result - Remark	Verdid
Anbore.	And Andrew Anbot Air	Tok Amboten Anbo	N/A
	Zx.1 General	and hotek Anbore	IN/A
	This sub-clause specifies requirements for	And And ok by	otsk.
	protection against excessive sound pressure from		40.
	personal music players that are closely coupled	Anbo	hpore
	to the ear. It also specifies requirements for	th abotek Anb	"otek
	earphones and headphones intended for use will personal music players.	atek suboter	AUD
	101	otek Anbo A. Stek	anbot
	A personal music player is a portable equipment for personal use, that:	ek aboten Anbo	
		nbo Ar stek anbote	An
	is designed to allow the user to listen to recorde		XeX.
	or broadcast sound or video; and primarily users headphones or earphones that can be worn in c		,-
	on or around the ear; and allows the user to wall		botek
	around while in use.	hotek Anbore A	rek.
	NOTE 1 Examples are hand-held or body-worn	Ant hotek	Aupor
	portable CD players, MP3 audio players, mobile	tek Anbore Ant	3700
	phones with MP3 type features, PDA's or similar	k notek anbore	Vier
	equipment.	aboter And K sotek	Ant
	A personal music player and earphones or	otek hotel Anb	-16
	headphones intended to be used with personal	Anoo Air stek mbo	(8)
	music players shall comply with the requiremen	ts botek Anbo	rek
	of this sub-clause.	Arr. tek abotek Ar	100
	The requirements in this sub-clause are valid fo	r Anbor Air	aboten
	musci or video mode only.	ek botek Anbo	by.
	The requirements do not apply:	And tek abotek	Anbo
	while the personal music player is connected to	hotek Anbore Andrew	da
	an external amplifier; or	lek botek Anbo	Pr.
	while the headphone or earphones are not used	Inport And tak shot	er b
	NOTE 2 An external amplifier is an amplifier which is	hotek Anbolt All	*eK
	not part of the personal music player or the listening	And An Hotek An	00
	device, but which is intended to play the music as a	Anbore And	botek
	standalone music player.	K sotek Anbore	Dur.
	The requirements do not apply to:	And Andek	Anbore
	hearing aid equipment and professional	otek Anbote Anb	· ·
	equipment;	bo Arbote	And
	NOTE 3 Professional equipment is equipment sold through special sale s channels. All products sold	Anboten Anbo K wot	Ns.
	through normal electronics stores are considered not	to otek Anbote Anb	40.
	professional equipment.	And K watek Ant	Dolo
	analogue personal music players (personal mus	sic anboter Anbo	wotek.
	players without any kind of digital processing of	A. stek shoter	AMP
	the sound signal) that are brought to the market		anboter
	before the end of 2015.	tek abotek Anbo	p.
P. Stelk	NOTE 4 This exemption has been allowed because	bo botes	N/A
	this technology is falling out of use and it is expected	hotek Anbor An	.K
	that within a few years it will no longer exist. This	Ant K hotek Anbo	P.
	exemption will not be extended to other technologies	ambore Am	olek
	For equipment which is clearly designed or	hotek Anbote Ant	No.
	intended for use by young children, the limits of	And K sotek	Alport
boro t	EN 71-1 apply.	k nboter Anb	-otek
	Zx.2 Equipment requirements	L. Te.	N/A

lause	Requirement – Test	Result - Remark	Verdict
lause	Requirement – Test	Result - Remark	Verdict
Auporg	complies with the following:	K Anbole And	10. 10.
	complies with the following:	Anb. Stek	upore Ame
	equipment provided as a package (pers		Yez
	music player with its listening device), w		Aupo. b
	acoustic output L _{Aeq,T} , is ≤ 85 dBA meas		Lotek
	while playing the fixed "programme simu		An
	noise" as described in EN 50332-1; and		aboter
	personal music player provided with an		A. rel
	electrical output socket for a listening de		tek Vupor
	where the electrical output is ≤ 27 mV r		V
	as described in EN 50332-2, while playi		poter And
	fixed "programme simulation noise" as o	escribed	, alk
	in EN 50332-1.	ter Arbo Arbo	Anboto A
	NOTE 1 Wherever the term acoustic acousti		A. Stek
	used in this clause, the 30 s A-weighted equ	ipment	Auko
	sound pressure level L _{Aeq,T} , is meant.	otek anbote Anu	wotek.
	See also Zx.5 and Annex Zx.	Anbo A tek aboten	YUD
	All other equipment shall:	otek Anbor An	ek boter
	a) protect the user from unintentional ac		VI
	outputs exceeding those mentioned abo	ve; and	stek nbo
	b) have a standard acoustic output leve	not And hotek And	DO. N.
	exceeding those mentioned above, and	cek poste And	notek Ar
	automatically return to an output level ne	ot kek nboten	AND
	exceeding those mentioned above when		aboten
	power is switched off; and	otek Anbore	All
	c) provide a means to actively inform the	e user of	Mpore
	the increased sound pressure when the	Anborek Anbo	, sek
	equipment is operated with an acoustic	output	SK WIPO
	exceeding those mentioned above. Any		, v v o
	used shall be acknowledged by the use		poter And
	activating a mode of operation which all		404
			Aupore Ar
	an acoustic output exceeding those men		Yek
Yek Y	above. The acknowledgement does not		Anb
	be repeated more than once every 20 h	of tek	hotek
	cumulative listening time; and	Anbo Anbore	bur K
	NOTE 2 Examples of means include visual of		K abole
	signals. Action from the user is always requi		br.
	NOTE 3 The 20 h listening time is the accumulistening time, independent how often and ho		otek Anbol
	personal music player has been switched of		,,
	d) have a warning as specified in Zx.3;		botel An
	e) not exceed the following:	ind stek subore	Alle
		avor with	"upolo
	1) equipment provided as a package (pl		A. rek
	Its listening device), the acoustic output		Mpor
	100 dBA measured while playing the fix		rek
	"programme simulation noise" described	I In EN	Anbo
	50332-1; and	atex Anhore Ans	You You
	2) a personal music player provided with		Ofe. And
	analogue electrical output socket for a li	stening	tek
	device, the electrical output shall be ≤ 1	50 mV	"upo" VII.
	measured as described in EN 50332-2,		"Clek
	playing the fixed "programme simulation		Anbo
	described in EN 50332-1.	otek Anbore Ans	hotek
	For music where the average sound pre	ssure	Arich
	(long term $L_{Aeq,T}$) measured over the du		A aboten
	the song is lower than the average prod		b.1.
	and deligne letter along all average prod		1



abotek A	hbote And hotek	EN 60950-1	k potek	Anboten	nbontek
Clause	Requirement – Test	Anbotek Anbote	Result - Rem	nark	Verdict
hotek	Anbore And	K upotek Anb	V 20	tek Auporen	bug.
k Anbotek	does not need to be give sound pressure of the so limit of 85 dBA. In this ca	ong is below the basic	ge Amotek Ar	ibotek Anbotek	tek Anbox
otek Anbo	duration of the song. NOTE 4 Classical music ty sound pressure (long term	pically has an average	Anbotek		botek
Anbotek	than the average programmer. Therefore, if the player is cand compare it with the programmer.	ne simulation noise. apable to analyse the son	gek An-		Anbotek
Anbotek	the warning does not need average sound pressure of limit of 85 dBA.	to be given as long as the	rotek Aupo,		Anbote
otek Anbo	For example, if the player i simulation noise to 85 dBA level of the song is only 65	, but the average music	Arbotek Ar		hotek Ani
nbotek Ar	give a warning or ask an arthe average sound level of basic limit of 85 dBA.	cknowledgement as long a	as Annotes		anbotek tek
Annabotek	Zx.3 Warning The warning shall be pla	and on the aguinment	oriek abot	ek Anborek	N/A
Anbotek	on the packaging, or in tand shall consist of the	he instruction manual following:	angotek An		ex Anb
tek Aupol	the symbol of Figure 1 wmm; and the following w	ording, or similar:	f 5		potek I
upotek Al	"To prevent possible healisten at high volume lev		Anbote Abotek		Anbotek
Anbotek	Anbotek	Anbo An	potek Anbote		Anbote
rek Aupor	1 July 1	ച	Anbotek Ant		ek Anb
botek Ant	otek Ant Z'4	Name of the last	Anbotek		anbotek P
Anbotek	Figure 1 – Warning l Alternatively, the entire	abel (IEC 60417-6044)	ek Anbote		Anbotek
Anbotek	through the equipment of the user is asked to ack	lisplay during use, wher			Anbr
lek Pupo,	higher level. Zx.4 Requirements for	listening devices (hes	dnhones and e	arphones)	oket-
potek Ant	Zx.4.1 Wired listening input	devices with analogue	Anbotek	arphones)	N/A
Anbotek	With 94 dBA sound presinput voltage of the fixed noise" described in EN 8	l "programme simulatior	n Air		Anboten
K Anbotek	This requirement is applithe headphones can open	icable in any mode whe erate (active or passive)	ere , , , , ,		K Anbo
otek Anb	including any available s in volume level control).	abotek Anbotek	bupos b		olek Vi
notek p	NOTE The values of 94 dBA - - 27 mV and 100 dBA - 150 n	nV nbotte	BA Andrew	Anbotek A	Thore stek
Anbotek	Zx.4.2 Wired listening input With any playing device	Aupo. K.	otek Anbotek		N/A



W.	EN 60950-1	Anbo Air sek	Pupote.
Clause	Requirement – Test	Result - Remark	Verdic
botek	Anho And And And	ok hotek Anboy	Dr.
Au.	"programme simulation noise" described in EN	ore Aug K Sotek	Anh
	50332-1 (and respecting the digital interface	tek nboter And	V.
	standards, where a digital interface standard	upo A nek noo	1
	exists that specifies the equivalent acoustic level),	hotek Anbox A.	48K
	the acoustic output LAeq,T of the listening device	And ok hotek An	pos
	shall be ≤ 100 dBA.	Anbore Ans	hotek
	This requirement is applicable in any mode where	A otek Anbote	And
	the headphones can operate, including any	Anbe	Aupore
	available setting (for example built-in volume level		h.
	control, additional sound feature like equalization,	And And hotek	Anh
	etc.).	otek Anbote And	K
	ak ambote And And moter A	thos W. Tek upot	E.
	NOTE An example of a wired listening device with digital input	hotek Anbor Air	404
101	is a USB headphone.	And K Solek And	000
	Zx.4.3 Wireless listening devices	anbote. Anb	N/A
	In wireless mode:	A. rek aboter	AUD
	with any playing and transmitting device playing	Aupor Air	stode
	the fixed programme simulation noise described	K kotek anbote	VIII
	in EN 50332-1; and	ten Anbe	dna
	respecting the wireless transmission standards,	ak botek Anbo	br.
	where an air interface standard exists that	bote And ak bote	3 F
	specifies the equivalent acoustic level; and with	stek anbote And	-V.
	volume and sound settings in the listening device	Anbo Air stek ant	oter
	(for example built-in volume level control,	hotek Anbot Air	401
	additional sound feature like equalization, etc.)	And	upor
	set to the combination of positions that maximize	abote. And	" otel
	the measured acoustic output for the	All tok	Anbe
	abovementioned programme simulation noise,	Cak Auport Au	-100
	the acoustic output LAeq,T of the listening device	to tek Anbore	VIII
	shall be ≤ 100 dBA. NOTE An example of a wireless	boten Anb	1
	listening device is a Bluetooth headphone.	tek abotek Anbe	V.
	Zx.5 Measurement methods	Anbos As sek	N/A
	Measurements shall be made in accordance with	sotek Anbore An	*ex
	EN 50332-1 or EN 50332-2 as applicable.	And	upore
	Unless stated otherwise, the time interval T shall	aboten Anbe	otek
	be 30 s.	All tek botek	Anbo
	Anboten Anbo	ek Anbore And	.00
	NOTE Test method for wireless equipment provided without	atek anbote	Vur
AND	listening device should be defined.	oten Anbo A.	
7.1 nbote	Replace the subclause as follows:	tek aboten Anbo	P
	Basic requirements	Anbor An	Clek
	200	otek Anbore And	Ya
	To protect against excessive current, short-	Anbo A. Stek	pore
	circuits and earth faults in PRIMARY CIRCUITS,	hotek Anbo	-tek
	protective devices shall be included either as	And ak wotek	Anbor
	integral parts of the equipment or as parts of the	ok above And	0
	building installation, subject to the following, a), b)	P. stek aboten	AUDO
	and c):	otek Aupon VII.	
	a) except as detailed in b) and c), protective	K sotek Anbote	P.L
	devices necessary to comply with the	abote. And	lek.
	requirements of 5.3 shall be included as parts of	Anbrew Anbrew	
	the equipment;	Anbore And	notek
	b) for components in series with the mains input	atek abote A	(I)
	to the equipment such as the supply cord,	Aupo. N. Fek	aboten
	appliance coupler, r.f.i. filter and switch, short-	k hotek anbore	VI.
	circuit and earth fault protection may be provided	And	Aupor
	reneun and earm fault protection may be provided	101	Pro.





Anbotek A	EN 60950-1	Anbotek Anbotek	hotek
Clause	Requirement – Test	Result - Remark	Verdict
Aupotek	by protective devices in the building installation;	lek Anbotek Anbotek	Anbote
Anbotek Anbotek Anbotek	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anbotek Anbotek
stek Anbotek	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anb
2.7.2	This subclause has been declared 'void'.	Anbotek Anbote	N/A
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	ek Anbotek Anbote	N/A
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2". In Table 3B, replace the first four lines by the following:	Anbotek	N/A Anbotek Anbotek
Anbotek Anbotek	Up to and including 6 0,75 a) Over 6 up to and including 10 (0,75) b) 1,0 Over 10 up to and including 16 (1,0) c) 1,5 In the conditions applicable to Table 3B delete	otek Anbotek Anbotek	Anbote ^k
shotek Anh	the words "in some countries" in condition ^{a)} . In NOTE 1, applicable to Table 3B, delete the second sentence.	Anbotek Anbotek Anb	upotek A
3.3.4	In Table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following: Over 10 up to and including 16 1,5 to 2,5 1,5 to 4	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
ler Ando	Delete the fifth line: conductor sizes for 13 to 16 A	inbotek Anbot Air	otek Ar
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N/A
botek Anbote	safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation).	mbotek Anbotek Anbotek Anbo	lek Vu
Anbotek Anbotek	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	Anbotek Anbotek Anbotek	N/A





Clause	Requirement – Test	Result - Remark	Verdict
botek	Anbore Ant Stek Shotek Ant	K hotek Anbote	Kup
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 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.	all ^A hotek Anbotek Anbotek Anbotek Anbotek	N/A
	Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	otek Anbotek Anbotek Anbotek	Anbote ^k
Bibliography	Additional EN standards.	botek Anbot An	10× -

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH	
bup. Pak	THEIR CORRESPONDING EUROPEAN PUBLICATIONS	

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. In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex. 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. 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). In Finland , Norway and Sweden , the third	N/A N/A
1.7.2.1 and 7.3 of this annex. 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. 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).	N/A
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. 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).	Ando
annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
In Finland, Norway and Sweden, the third	Anbotek Anbotek N/A
dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.	Anbotek Anbotek N/A
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.	botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek

In **Finland**: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"

- A/4	EN 60)950-1	And	papore
Clause	Requirement – Test	An	Result - Remark	Verdic
, asodor	Anbo Anbote Anbote	Ann	rek abotek Anbo	by.
	In Norway : "Apparatet må tilkoples jord	let Anb	atek nbote	Anb
	stikkontakt"	*eK	botek Anbo	4870
	In Sweden : "Apparaten skall anslutas t	ill jordat	Anb	. ,
	uttag"		Anbore All	botek
	rootek anbote.		hotek Anbor	"I.
	In Norway and Sweden, the screen of		And Lak botek	Aupor
	distribution system is normally not earth		Anbore And	bote
7.2.1	entrance of the building and there is no		K hotek Anbore	VII.
11:2009)	equipotential bonding system within the		And K hotel	Anb
Ambore	Therefore the protective earthing of the		stek anbote And	. K
	installation need to be isolated from the	screen of	ibo A. Stek Anbr	Diffe. b
	a cable distribution system.	*eK	abotek Anbo	Nek
	It is however accepted to provide the in		All tek aboten A	nho "
	external to the equipment by an adapte		Anbore Air	aboten
	interconnection cable with galvanic isol	ator, which	hotek Anbo	40
	may be provided by e.g. a retailer.	Ham Anbore.	An botek	Anbor
	The user manual shall then have the fo		tek Aupore Aur	
	similar information in Norwegian and S		k satek anbore	Ann
	language respectively, depending on in		boten Anbe	tek
	country the equipment is intended to be		tek abotek Anbe	\(\(\)
	"Equipment connected to the protective		Aupor All	poter
	of the building installation through the r		botek Anbo	Yek
	connection or through other equipment		And tak shotek	Aupor
	connection to protective earthing – and distribution system using coaxial cable,		Anbore Ans	botel
	some circumstances create a fire haza	27/. 7 "	K sotek anbote	VUL
	Connection to a cable distribution system		And K Sotek	Anbo
	therefore to be provided through a devi		stek subote. And	40
	providing electrical isolation below a ce		bo Atek Anbo	re V
	frequency range (galvanic isolator, see		abotek Anbo	Yek
	60728-11)."		Al. atek anboten An	'D'
_V.	NOTE In Norway, due to regulation for insta	allations of	Anto	N/A
	cable distribution systems, and in Sweden,		abotek Ando	Otek.
	isolator shall provide electrical insulation be		All tek aboten	Aupe
	The insulation shall withstand a dielectric st	rength of	ek Anbos Air stek	nbo
	1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	Ans	tek botek Anbo	bre
	Translation to Norwegian (the Swedish	text will	pore And bot	ek Ar
	also be accepted in Norway):		Sotek Anbore An	*eX
	"Utstyr som er koplet til beskyttelsesjor		And ok hotek An	born
	nettplugg og/eller via annet jordtilkoplet		Anbote And	hotek
	og er tilkoplet et kabel-TV nett, kan forå		A. Stek Anbore.	AME
	brannfare. For å unngå dette skal det v tilkopling av utstyret til kabel-TV nettet		Anb	Anbote
	en galvanisk isolator mellom utstyret og		ok aboter Anbe	
	nettet."	y Kanel- IV	All stek spotek	Aupo
	ek po		otek Aupor Air	No.
	Translation to Swedish:	ek Ant	lek botek Anbor	by.
	"Utrustning som är kopplad till skyddsjo		ambote Anti-	Olek
	jordat vägguttag och/eller via annan utr		otek Anbote An	. ak
	och samtidigt är kopplad till kabel-TV n		Anbo	Vapore.
	vissa fall medfőra risk főr brand. Főr att		aboten Anbo	n dek
	detta skall vid anslutning av utrustninge		Arr tok	Anbo
	kabel-TV nät galvanisk isolator finnas r	nellan	Aupore Ann	1000
	utrustningen och kabel-TV nätet."		K work	VILL



	potek Anbo	br. Stek Supoter.	And ok watek	Anbore
inpose b	otek Anbotek	EN 60950-1	Anbore And	abotek
Clause	Requirement – Test	Anbor Ali	Result - Remark	Verdict
4 7 0 4	II. Dames de OLAGO	DI LICOADI E	rek anbotek Anbo	NE NIAMO
1.7.2.1 (A2:2013)	In Denmark , CLASS I	PLUGGABLE intended for connection to	A. Stek Anboi	N/A
(A2.2013)	18 10 "	etwork shall, if safety relies	Abotek Anbo	Yeto.
	on connection to prote		tek aboter An	100
	V- 1-0"	ected between the network	Anbor Air	nboten
	A V	ole parts, have a marking	botek Anbo	A. Stek
		ent must be connected to	Ann tek abotek	Anbo
	an earthed mains sock		Anbot Air	aboten
		nmark shall be as follows:	ek botek Anbo	Pr.
		ets stikprop skal tilsluttes	Arr Lok abot	ek Aupo
		d, som giver forbindelse til	Potek Auporg Air	401
2000 200	stikproppens jord."	atok Amore, A	ok botek pol	bor br
1.7.5		ıtlets for providing power to	Anbore Ann	N/A
		be in accordance with the	notek Anbore	VII.
	1-01 J	tions, Section 107-2-D1,	And ok hotek	Anbore
		Ba, DK 1-5a or DK 1-7a,	Anbote, And	hotek
	when used on Class I	MENT the socket-outlet	k kotek anbote	Ann
		with Standard Sheet DK 1-	And K hote	Yupo,
	1b or DK 1-5a.	Potest Standard Silver Silver	otek Anbote Anb	
	K NOT VI	the socket outlet shall be	bo k notek ant	Jose Au
		ndard Sheet DKA 1-4a.	anboten Anbo	notek
1.7.5	In Denmark , socket-ou	utlets for providing power to	otek Anbots	N/A
(A2:2013)		pe in accordance with the	Anb ok hotek	anbole
	DS 60884-2-D1:2011.		Anbote And	botek
	-Anbore An	k supplem Anbe	K kotek Anbore	Ann
	For class I equipment to		Anb ok hote	K Aupor
	Sheets are applicable:	K 1-7a, with the exception	otek Anbote And	10.
	for STATIONARY EQU		otek anb	Orc VIII
	socket-outlets shall be		Anbote, Ann	hotek
	0,	1b, DK 1-1c, DK 1-1d or	hotek Anbore A	ME
	DK 1-5a.		And ak hotek	Aupore
	rus rek apotek	Anbo	Anbore And	hotek
		d for providing power to	k hotek Anbote	And
		a rated current of 2,5 A	Anb k hotel	Anbore
	shall be in accordance	4a. Other current rating	otek Anbote Anb	w. Var
	socket outlets shall be		K hotek Anbr	Dre Ame
	DS 60884-2-D1 Standa		Inbote. And	hotek 1
	DKA 1-3b.		notek Ambore A	ins
	spotek Anbo		Ann ok wotek	Alport
	Justification	Anbo	Anbore Ant	hotek
o o wotek	the Heavy Current Reg		K botok phote	Ann
2.2.4		ments see 1.7.2.1, 6.1.2.1	And woter	N/A
2.3.2	and 6.1.2.2 of this annumber of the finland, Norway are		otek Anbote Anu	N/A
Z.J.Z		s for the insulation. See	ok notek Anbe	IN/A
	6.1.2.1 and 6.1.2.2 of t		upote Ann	polek b
2.3.4		ments see 1.7.2.1, 6.1.2.1	notek Anbore A	N/A
*eK	and 6.1.2.2 of this anne		And hotek	Alboro
2.6.3.3		n, the current rating of the	Aupoles Aug	"boP [™]
	circuit shall be taken as		lok hole	AUS



00	EN 60950-1	or Ar. tek mbote	S
lause	Requirement – Test Result	- Remark Ver	rdict
boten	Anbo Arbore Anbore	hotek Anbot Att	
.7.1	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN	Ambotek Anbotek N	/A
	EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable	anbotek Anbotek Anbotek	
inbotek	protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.	nbotek Anbotek Anb	ote
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.	Anbotes, Aupotek	/A
2.1.1	In Switzerland , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:	stek Anbotek Antotek Anbotek Anbotek Anbotek	/A /k
	SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A	Anbotek Anbotek	
	SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A	tek Anbotek Anbotek	
	In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in	Anbotek Anbotek Anbo	
	Switzerland, the plugs of which are according to the following dimension sheets, published in February 1998:	Anbotek Anbotek	
	SEV 5932-2.1998: Plug Type 25 , 3L+N+PE 230/400 V, 16 A	ek Anbotek Anbotek	
	SEV 5933-2.1998:Plug Type 21, L+N, 250 V, 16A	Anbotek Anbotek Anbo	
	SEV 5934-2.1998: Plug Type 23, L+N+PE 250V, 16 A	Anbotek Anbote Ar	



nbor	All atek Anbotek	EN 60	950-1	Anbote	Yun Fek	abotek
Clause	Requirement – Test	Anbore	Annotek	Result - Remarl	k Anbo	Verdict
poter	Anbo	K "hote.	ALLE	-K notek	Anbore	Pr.
3.2.1.1 Anbotek Anbotek Anbotek Anbotek Anbotek	In Denmark , supply corequipment having a rate exceeding 13 A shall be according to the Heavy Section 107-2-D1. CLASS I EQUIPMENT outlets with earth contact to be used in locations with indirect contact is required to shall be provided with standard sheet DK	ed current not provided with a Current Regula provided with so cts or which are where protection red according to with a plug in ac 2-1a or DK 2-5	plug tions, ocket- intended n against the wiring ocordance a.			N/A° botek Anbotek Anbotek Anbotek
hotek Anbotek Anbotek	If poly-phase equipmen equipment having a RA exceeding 13 A is proviwith a plug, this plug sh the Heavy Current Region EN 60309-2.	TED CURREN ded with a supper all be in accordance.	ly cord ance with	Anbotek An Anbotek Anbotek	Anbotek Anbotek Anbotek	Anbotek Anbotek
3.2.1.1 (A2:2013)	In Denmark , supply corequipment having a rate 13 A shall be provided to DS 60884-2-D1. CLASS I EQUIPMENT outlets with earth contact to be used in locations with indirect contact is required shall be provided with standard sheet DK	ed current not e with a plug according with so cts or which are where protection red according to with a plug in acceptance or DK 2-5	rding to ocket- intended n against the wiring ccordance a.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	potek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N/A
	If a single-phase equipm CURRENT exceeding 1 equipment is provided with plug, this plug shall be instandard sheets DK 6-1 EN 60309-2.	3 A or if a poly- vith a supply co n accordance w	phase rd with a rith the			Anbotek Anbotek



nbotek. A	hbotek Anbor Anbor	EN 60950-1	And abotek	inpotek An	bore
Clause	Requirement – Test	potok Anbor	Result - Remark	Anboten	Verdict
botek	Anbor An otek	Anborek Anbo	ok botek	Anboth	Pur
3.2.1.1	In Spain , supply cords of single having a rated current not exce be provided with a plug accord 20315:1994.	eding 10 A shall	ibotek Anbotek		N/A
Anbotek A	Supply cords of single-phase e rated current not exceeding 2,5 provided with a plug according 50075:1993.	A shall be to UNE-EN	Anbotek Anbotek		Anbotek Anbotek
Anbotek Anbotek Anbotek	CLASS I EQUIPMENT provide outlets with earth contacts or w to be used in locations where p indirect contact is required accordes, shall be provided with a with standard UNE 20315:1994	hich are intended protection against ording to the wiring olug in accordance	botek Anbotek		k Anbore
Anbotek	If poly-phase equipment is provoord with a plug, this plug shall with UNE-EN 60309-2.		Anbotek Anbotek	Anbotek Anbotek	Anbotek
3.2.1.1	In the United Kingdom , appar with a flexible cable or cord and connected to a mains socket or 1363 by means of that flexible plug, shall be fitted with a 'stan accordance with Statutory Instr - The Plugs and Sockets etc. (\$Regulations 1994, unless exen regulations. NOTE 'Standard plug' is defined in	d is designed to be conforming to BS cable or cord and dard plug' in cument 1768:1994 Safety) opted by those	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek		N/A Anbotek Anbotek Anbotek Anbotek
tek Anbor	essentially means an approved plu 1363 or an approved conversion p	ig conforming to BS	otek Anbore	lek Anbote	Anbo
3.2.1.1	In Ireland, apparatus which is cable or cord and is designed to a mains socket conforming to I of that flexible cable or cord an fitted with a 13 A plug in accord Statutory Instrument 525:1997 Standards Authority of Ireland Plugs and Conversion Adaptor Use) Regulations 1997.	o be connected to S. 411 by means d plug, shall be dance with - National (section 28) (13 A s for Domestic	Anbotek Anbotek Anbotek Anbotek Otek Anbotek Anbotek Anbotek	hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek Anbotek Anbotek
3.2.4	In Switzerland , for requirementhis annex.	ts see 3.2.1.1 of	Anbotek An	poter And	N/A
3.2.5.1	In the United Kingdom , a pow conductor of 1,25 mm ² is allow with a rated current over 10 A a including 13 A.	ed for equipment	K Anbotek	Anbotek Anbotek	N/A
3.3.4	In the United Kingdom , the ra sizes of flexible cords to be acc for equipment with a RATED C 10 A up to and including 13 A i	cepted by terminals URRENT of over s:	Anbotek Anbote		N/A
Anbore A	• 1,25 mm² to 1,5 mm² nomina area.	cross-sectional	Anboter	Andatek	Anbotek



botek	Anbar All stek	EN 60950-1	K botek Anberte	MU
Ans stek	-nbotek Anbo	EN 00950-1	A. Morella	Pupore
Clause	Requirement – Test	VUD.	Result - Remark	Verdict
abote	And	tek anbore An	ok botek Anbo	Ъ.
4.3.6	BS 1363 part 1:1995, i 1:1997 and Amendmen of DIRECT PLUG-IN E assessed to BS 1363: 12.9, 12.11, 12.12, 12.	ket outlet complying with including Amendment nt 2:2003 and the plug pa EQUIPMENT shall be Part 1, 12.1, 12.2, 12.3, 13, 12.16 and 12.17,	Anbotek Anbotek	Anbotek Anbotek
Anbotek Anbotek	less than 125 °C. Whe replaced by an Insulate (ISOD), the requirementalso apply.	12.17 is performed at not ere the metal earth pin is ed Shutter Opening Devic nts of clauses 22.2 and 2	ceolek Anboten Anbo	nbotek Anbo
4.3.6	known as plug similar of comply with Statutory I National Standards Au 28) (Electrical plugs, pl	LUG-IN EQUIPMENT is devices. Such devices sh Instrument 526:1997 - athority of Ireland (Section lug similar devices and se) Regulations, 1997.	And tek botek	Antole N/A
5.1.7.1 And	mA r.m.s. are permitted equipment: • STATIONARY PLUG TYPE A that is inter RESTRICTED ACCES	ent results exceeding 3,5 d only for the following GABLE EQUIPMENT nded to be used in a SS LOCATION where	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N/A
ek Anbotek botek Anbotek Anbotek	has provision for a period PROTECTIVE EARTH is provided with instruction that conductor by a SE • STATIONARY PLUG TYPE B;	munication centre; and manently connected all MG CONDUCTOR; and ctions for the installation central ERVICE PERSON; GABLE EQUIPMENT	of Anbotek Anbotek Anbotek Anbotek	botek Anbotek Anbotek Anbotek Anbotek
	• STATIONARY PERM EQUIPMENT.	MANENTLY CONNECTED	botek Anbotek Anbo	ek Anbot



notek	Aupore Aur	abotek EN 00	050.4	Dr. Ofek	Vupore. Vi	10°
up tek	anbotek Anbore	EN 60	950-1	Anbo	W. Aporek	Anbote.
Clause	Requirement – Test	S. Vun	, doctel	Result - Remark	All	Verdict
5.1.2.1	Nu.	potek Anbot	h. 20	tek Aupoter	And	N/A
A1:2010)	In Finland , Norway following text between paragraph of the con	en the first and seco				N/A
	If this insulation is so forming part of a con consist of either					Anbotek Anbotek
	- two layers of thin shall pass the electri					Anbote
	- one layer having a at least 0,4 mm, which strength test below.				k Anbotek	ek Anb
	Alternatively for com through insulation re consisting of an insu filling the casing, so	quirements for the lating compound co	insulation ompletely			Anbotek Anbotek
	CREEPAGE DISTAN component passes the accordance with the and in addition	NCES do not exist, he electric strength	if the test in			Anbote Anb
	- passes the tests an 2.10.11 with an elect multiplied by 1,6 (the	tric strength test of	1,5 kV			otek p
	2.10.10 shall be perf	ormed using 1,5 k	/), and			mbore
	- is subject to ROUT strength during manuvoltage of 1,5 kV.					Anbotel
Anbore	It is permitted to brid optocoupler complying			otek Anbote	tek Anbote	N/A
	It is permitted to brid capacitor complying subclass Y2.					otek
	A capacitor classified EN 60384-14:2005, under the following of	may bridge this ins	ulation			Anbotek
	- the insulation requi having a capacitor cl EN 60384-14, which	lassified Y3 as defined in addition to the Y	ned by '3 testing,			tek A'
	is tested with an imp EN 60950-1:2006, 6	.2.2.1;	notek .			botek
	 the additional testing the test specimens a the impulse test of 3 	s described in EN	60384-14;			Anbotek
	before the endurance sequence of tests as	e test in EN 60384-	·14, in the			Anbo



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Aupore	EN 60950-1	Anboten Anbo	abotek
Clause	Requirement – Test	Result - Remark	Verdict
hotek	Anbor Anbores Anbores	K Kotek Anbou	br.
6.1.2.2	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.		N/A N/A Anti- Botek Anbotek Anbotek Anbotek
7.2	In Finland , Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in	Anbotek Anbotek Anbotek Anbotek	N/A
Anbotek	6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.	Anbotek 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.	Her Anbotek Anbotek	N/A



1.5.1 nbotes	TABLE: List of critic	al components	k Notek	Anbotek Anb	P about
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
PCB	Interchangeable	Interchang eable	V-0, 130°C	UL 94	UL Anbotek
Remark:	abotek Anbote	And	Anbotek Anbo	ek abotek	Anbote

1.5.1	TABLE: Opto Electronic Devices	Ar. hotek	Anboten	AUDO	N/A
Manufactu Type	rer:	k Anbotek	Andotek	Anbotek	Anb
Separately	tested:	otek Anbor	- Air	K Anbo	ier b
Bridging in	sulation:	hotek Anbo	YUR YUR	Yek.	botek
External cr	eepage distance::	An-	botek Anh	o. K	hotek
VILLE	eepage distance:: nrough insulation::		Anbotek		
Tested und	der the following conditions:	k Anboten	Anbotek -Anbotek	Anbotek	ek Anbo
Output	nbote And July Spotek And	or pri	iek - Anbote	Anb	*ek
supplemen	tary information				
Ann	Anbotek Anbo. Anbotek	Wupope, Wu	orek b	nbotek	Aupor

1.6.2	TABLE: ele	ABLE: electrical data test (in normal conditions)							
fuse #	I rated (A)	U (V)	P (W)	I (A)	I fuse (A)	condition			
bo ter	nbotek	Anbote.	run Potek	Anotek	Vupor	Pr. spotek	Anboten		
Remark:	nbotek	Aupoto	Am	Anbot	ek Aup.	tek spotek	Anbores		

2.1.1.5 c) 1)	TABLE: n	nax. V, A, VA test	Anbotek	Yupopa Yup	otek Anbote N/Anbe
Voltage (V	(rated)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
Anbotek	Aupo	Abotok Ar	bote. And	c nootek	Anbou An hotek
Remark:	Anbo	A. botek	Anboten Anb	tek spotek	Anbore K An-

2.1.1.5 c) 2)	TABLE:	stored energy	botek Ant	or b	hotek	Anbotek	Anbo	N/A
Capacitance C (µF) Voltage		/oltage U (V)			Energy	E (J)	•	
hotek -A	nboter	Anno	notek	Anboro	VII.	cek Anbot	EN	,nbo
Remark:	Anbotek	Anbo	hotek	Anbore	Aug	rek n	potek	Anbo



2.2 Ambolier	TABLE: evalu	E: evaluation of voltage limiting components in SELV circuits N/A									
Loc	ation	Voltage measu	rement (V)		Com	ments					
Component	(measured bet	ween)		max. voltage (V) (normal operation)		ting Compon	ents				
Transformer	Location		V peak	V d.c.							
Anbo - Lek	botek	Anbote And And	k nootek	-Vupo	Vak V	otak Anh	oter				
Fault test pe	erformed on vol	tage limiting components	s Vo		ured (V) in SE peak or V d.c.						
tek no	otek Anbor	K wotek b	upoten Ar	100	W. Potek	Anbore	VUIC				
Remark:	abotek Ant	ote And Stek	Anbotek	Anbor	hotek hotek	Anboten	A				

2.5	TABLE	E: limited power sou	rce measurement			N/A	
Condition		Output voltage	Output current	(Isc) (A)	Apparent power (S) (V		
		(Uoc) (V)	Meas. limit		Meas	limit	
ek Ri	botek	Anbote" Anb	ek nbotek	Aupor - Ai	notel-	potek Aup	
Remark:	S-C=Short	circuit, O-C=Open ci	rcuit	Anboro	Ann	Anbotek A	

2.10.2 T	TABLE	: Working vo	oltage measure	ement	poten Aupo	*ek	botek A	N/A
Componer	nt	From	То	V rms	V peak		Remark	
Ano wote	3K	Anbotek	Anbore P	u.	Anbotek	Anbo	Anbotek .	Anbo
Remark:	otek	Anbotek	Anbo	An botek	Anboten	Anbantek	nbotek	AT

2.10.3 and 2.10.4	TABLE: Clearar	BLE: Clearance and creepage distance measurements							
	l) and creepage at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)		
ek Aupon	otek Am	Anbotek.	Anbo	tek - Anbot	- Anb	ote. And	otek - Ar		
Supplementa	ary information:	K Anbo	to. Vun	atek an	otek p	"upo. by	hotek		

2.10.5	TABLE: Distance throug	ABLE: Distance through insulation measurements								
distance th	rough insulation di at/of:	U peak (V)	U rms (V)	Test voltage Required DTI (V) (mm)		DTI (mm)				
ek anb	otek Anbor An	otek A	bote b	100 10K	botek Anbo	_ An-				
Remark:	abotek Anbore An	otek	Anbotek	Anbo-	hotek An	pote. Ani				

4.3.8	TABLE: Batteries	k botek	Anbote.	Ans	nbotek	N/A
The tests of	of 4.3.8 are applicable only	y when appropria	ate battery	Anbo	hotek	N/A
data is not	available	oter Anbe	V 10	tek Aupore	Ann	bote



- N	-2010	VUL		Note	"Tho.	Des.	-74	~0/6,	200
Is it possible	to install t	he battery	in a reverse p	olarity pos	ition?	Anbo	ter	Anbe	N/A
y upote	Non-re	chargeable	e batteries		F	Rechargeal	ole batteri	es	
br.	Disch	arging	Un-	Cha	rging	Discha	arging	Reverse	d charging
otek Ant	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	Anbotek Anbotek Anb	Anbo	tek Anbot	ootek Anbotek	Anbotek Anbotek	Anbotek Anbo	ek - Anb	nbotek Anbotek	Anbotek Anbotek Anbote
Max. current during fault condition	nbotek	Anhotek Anhotek	Anbotek Anbotek	Anboten Anbot	e ^k Ar	potek Anbotek	Anbotek Anbotel	Anboli Anb	otek
Anbore	Ann	anbo	tek Vupor	by.	hotek	Anbotek	Aup	*ek	abotek
Test results:	Aupo	· ok	botek An	pote	Ans	See belov	V P	nbo	Verdict
- Chemical l	eaks Maria	-K	hotek	Anbote	And	No leakag	jed	Anbore	Pu.
- Explosion	of the batte	ery	Ann	anbotek	Anbo	No explos	sion	Aupore	And
- Emission of flame or expulsion of molten metal						No fire		otek I	
- Electric strength tests of equipment after completion of tests						No damaged		nbotek	
Supplement	ary informa	ation:	rek Aupos	, bu	otek	Anbotel	Anbo	· oK	botek
10.4	*/OO/-	- P. 1.	2.6	700	V U/2 A		No.	NO.	D.C.

4.5 Anborr	TABLE: Thermal requirements			P no
cek Aupo	Supply voltage (V):	3.3Vdc	Anbotek Anbo	_
hotek A	Ambient T _{min} (°C):	40.0	Anbotek Anb	_
notek.	Ambient T _{max} (°C):	40.0	ek antotek A	_
Maximum m	neasured temperature T of part/at:	Т (Allowed T _{max} (°C)	
PCB near m	nain IC	56.4	Anboten - Anbo	130
Metal case	tek Anbo tek Ant	51.6	Anbotek - Anbot	70
Remark:	botek Anber Ak hotek	Anbotel Anb	anbotek Anbo	r Vu

4.5.5	TABLE: Ball pressure test of thermoplastics	ok hotek A	inboten A	N/A
Ar. sbotek	required impression diameter (mm):	≤ 2 mm	Anbotek	Aupo
part		test temperature (°C)	impression (mm	
poten Ar	tek spotok Aupole Aug	Anbotek - Anbot	Vok Vi	otek
Remark:	Augo, W. Wotek Vupoter, Vup	Anbotek Anbo	Y VIII	notek

4.7 Anbote	TABLE: Resistance to fire				Anbe	P not	ek
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Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
Refer to table 1.5.1 for	or details	K Potek V.	pote, Ar	in stek	nbotek Anb
Supplementary inforr	mation:	k kotek	Anbotek	Anbo	botek P

5.1.6	TABLE: Touch current measurement						
Condition		L → terminal A (mA)	N → terminal A (mA)	Limit (mA)	Comments		
rek wo	tek	Aupore Aup	otek -nbotek	Anbote	y. notek	Anbotek	Ank
Remark:	hotek	Anbotek Ar	ipo rek apo	tek Aupore	Andatek	Anbotek	-

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests					
Test voltag	ge applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No		
tek an	poter Anboth Anboth Anboth	Aug Ster	"potek Aul	lo. br.		
Suppleme	ntary information:					

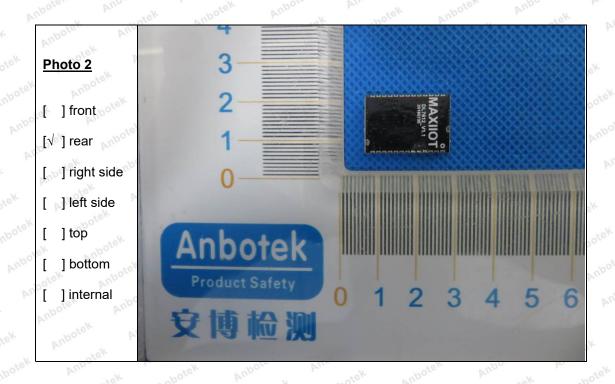
5.3.5	otek	TABL	E: Fault c	ondition t	ests	ick	Anbor	Al. botek Anboten	ANP
VI.	botel	ambie	ent temper	ature (°C)	e / /-	Dotek	Mpote	25℃	
ek P	71.	model/type of power supply					See below		
-tek	- Par						See page 1		
po. b		rated markings of power supply					See rating label		
	lo. Componen Fault t No.		Test voltage (V)	Test time	Fuse #.	Fuse current (A)	Result		
1 IC pin2-5 S-C		3.3VDC	10min	nbotek	-Anbo	Unit shut down immediately, damaged, no hazard.	no Anb		

1) SC: short-circuit.



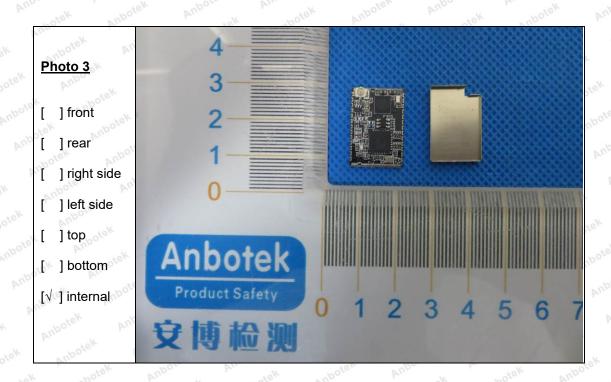
Photos







Photos



End of report