

Report No.: 18250SC00088501

Test Report

Client Name Acrel Co., Ltd.

Address No.253, Yulv Road, Jiading District, Shanghai, China

Product Name Wireless Metering Instrument

Nov. 13, 2020 300 Date

Shenzhen Anbotek Compliance Laboratory Limited

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Approved

Compliance Laboratory

Anbotek

Shenzhen Anbotek Compliance Laboratory Limited





TEST REPORT

EN 61010-1

Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirements

Report reference No.	18250SC00088501
Compiled by:	Sanko Chen Jeff Zhu
Approved by:	Jeff Zhu Joff Zhu
Date of issue:	Nov. 13, 2020
Contents:	49 pages
Testing laboratory:	Shenzhen Anbotek Compliance Laboratory Limited
Address:	1/F, Building D, Sogood Science and Technology Park, Sanwei
botek Anbote An-	community, Hangcheng Street, Bao'an District, Shenzhen,
abotek Anbote An-	Guangdong, China.518128
Testing location:	Same as above
Applicant	Acrel Co., Ltd.
Address:	No.253, Yulv Road, Jiading District, Shanghai, China
Test specification	nbor Antotek Anbore Antotek Anborer An
Standard	EN 61010-1:2010+A1:2019
Test procedure:	
Type of test object	Anboren Anor tek Anboren Anbor At borek
Description:	Wireless Metering Instrument
Trademark:	Acrel Anboret Anboret Anboret Anboret
Model/type reference : Manufacturer : Address : Factory : Address :	AEW100-D100R, AEW100-D100R-W, AEW100-D100R-W/CG AEW100-D160R, AEW100-D160R-W, AEW100-D160R-W/CG AEW100-D100R/X, AEW100-D100R-W/X AEW100-D100R-W/X-CG, AEW100-D160R/X AEW100-D100R/TN, AEW100-D160R-W/TN AEW100-D100R-W/TN-CG, AEW100-D160R/TN AEW100-D160R-W/TN, AEW100-D160R-W/TN-CG AEW100-D100R/X-TN, AEW100-D160R-W/X-TN AEW100-D100R/X-TN, AEW100-D160R/X-TN AEW100-D100R-W/X-TN-CG, AEW100-D160R/X-TN AEW100-D160R-W/X-TN, AEW100-D160R-W/X-TN AEW100-D160R-W/X-TN, AEW100-D160R-W/X-TN AEW100-D160R-W/X-TN, AEW100-D160R-W/X-TN AEW100-D160R-W/X-TN, AEW100-D160R-W/X-TN-CG Jiangsu Acrel Electrical Manufacturing. Co., Ltd. No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China Same as manufacturer Same as manufacturer
Rating:	AC3X220V/380V, 50Hz
walk solotiek Antoon	3X200 (1000) A

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Test item particulars	
Pollution degree	III hotek Anbotek Anbourtek Anborek
Protection degree	Class II equipment
Operating conditions:	Continuous operation
Connection to supply mains:	None
Special protection to IEC 60529:	IP20
Possible test case verdicts	boten Anbotek Anbotek Anbotek
- test case does not apply to the test object:	N (N.A.)
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
Testing	ek Anbotek Anbo
Date of receipt of test item:	Oct. 30, 2020
Date(s) of performance of test:	Oct. 30, 2020 to Nov. 06, 2020
General remarks	And hotek Anbo, Att stek

"(See remark #)" refers to a remark appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report a dot is used as the decimal separator.

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

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Copy of marking plate

Wireless Metering Instrument Model No: AEW100-D160R-W/X-TN-CG Rating: AC3X220V/380V, 50Hz 3X200 (1000) A

Made in China Jiangsu Acrel Electrical Manufacturing. Co., Ltd. No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China

Importer: XXX Address: XXX

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Clause	Requirement – Test	Result - Remark	Verdict
Anboten	And tek enbotek Antool All	ek Anboten Anbo	anboret
4.4 Anbotek	TESTING IN SINGLE FAULT CONDITION	potek Anbotek Anbo	Pubot
4.4.1	Fault tests	Lotek Anbotek Anbo	P
4.4.2	Application of fault conditions	and sotek anbotek Anb	Р
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Anbotek Anbotek A	N Nuboten
4.4.2.2	Protective impedance	Anboten And stek	Ntek
4.4.2.3	Protective conductor	otek Anboten Anbu	Npot
4.4.2.4	Equipment or parts for short-term or intermittent operation	hotek Anbotek Anbo	ek N Ant
4.4.2.5	Motors	Anborn K Notek An	poten N
4.4.2.6	Capacitors	Anboren Ant	anboren
4.4.2.7	Mains transformers	Anbore And And	Ant
4.4.2.7.2	Short circuit	otek Anboten Anto stek	Noote
4.4.2.7.3	Overload	hotek Anboter Ano	× N nb
4.4.2.8	Outputs	hotek Anboten Anb	Jek P
4.4.2.9	Equipment for more than one supply	An hotek Anboten An	P
4.4.2.10	Cooling	Ann hotek Anbotek	N _k
4.4.2.11	Heating devices	k hotek Anbotek	Anbo N tel
4.4.2.12	Insulation between circuits and parts	k Lotek Anbotek	PP
4.4.2.13	Interlocks	and And And And And	Nanbr
4.4.2.14	Voltage selectors	Anboter Ant otek Ant	ptek N A
4.4.3	Duration of tests	Anbote, Ant Ant	nbotekP
4.4.4	Conformity after application of fault conditions	Anboten Anto otek	AnboP'K
Anboten	Andon tek anborek Anbor ak bo	rek Anboten Anbo	nbotek
5 Anbotel	Marking and documentation	hotek Anboten Anbu	P
5.1.1	General	wotek Anbotek Anbo	P
stek a	Required equipment markings are:	un wotek Anbotek Anb	nek.
otek	Visible:	Ant otek Anbotek P	hbo. P
nuntek	From the exterior; or	Anv otek Nnbotek	Anbo P
Anos	After removing a cover; or	And atek Anbotek	Ň
AUDO	Opening a door	obten Anburget Anbotek	Nabor
Aupo	After removal from a rack or panel	Anboten Anbourtek abo	let N An
rek Ar	Not put on parts which can be removed by an operator	Anbotek Anbotek A	ootek N
NP V	Letter symbols (IEC 60027) used	And	Anbore P

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Clause	Requirement – Test	Result - Remark	Verdict
Anborek	Ando' A' Anbotek Anboten And	ak unbotek probo,	All
Anbotek	Graphic symbols (IEC 61010-1: Table 1) used	stek subotek Anbor	P
5.1.2	Identification	otek unbotek Anboto	alt -
jek no	Equipment is identified by:	ne otek unbotek Anbr	P
dek	a) Manufacturer's or supplier's name or trademark	And stek anbotek A	P
ib. stek	b) Model number, name or other means	And otek unbotek	Anbo'P
Anbo	Manufacturing location identified	Anto stek Anbotek	Purk P
5.1.3	Mains supply	ten Anbo	Pupor
Aupo	Equipment is marked as follows:	hotek Anbu tek nbo	iek - Ant
or Au	a) Nature of supply:	Anbotek Anbo tek	potek
botek botek	1) a.c. rated mains frequency or range of frequencies	Anborek Anborek	AnboreP
Anu	2) d.c. mark with symbol 1 of Table 1	And sotek Anbotek	An ^b P
Anb	b) Rated supply voltage(s) or range	And sotek Anbotek	P
Ano	c) Max. rated power (W or VA) or input current	poter And otek Anbot	e ^K P Anb
otek f	The marked value not less than 90 % of the maximum value	Anbotek Anbotek An	pote ^k N p
hotek	If more than one voltage range:	An hotek Anbotek	Anbe Nek
Anthotek	Separate values marked; or	k hotek Anbotek	AnbN tel
Annotel	Values differ by less than 20%	Ant hotek Anbotek	N
Ann	d) Operator-set for different rated supply voltages:	poter And hotek Anboth	-Anbi
Anu	Indicates the equipment set voltage	Anbote, Any otek Ant	ptek N P
oten A	Portable equipment indication is visible from the exterior	Anbotek Anbotek	unbote ^k N
botek	Changing the setting changes the indication	K ubotek Anboten	And N stek
Anbotek	e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked:	otek Anbotek Anbotek	Anbo Anbo
Anbo	With the voltage if it is different from the mains supply voltage	unbotek Anbore And	nek N pr
vek p	For use only with specific equipment	Anbo, wek abotek P	N N
Anbotek	If not marked for specific equipment it is marked with:	Anbotek Anbotek	Anbotek
Nabotek	The maximum rated current or power; or	stek Anbotek Anbot	N
habot	Symbol 14 with full details in the documentation	otek unbotek Anbor	N
5.1.4	Fuses And	ob otek opbotek Anbr	P
botek	Operator replaceable fuse marking (see also 5.4.5)	Anbo hotek Anbotek A	bore N

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Clause	Requirement – Test	Result - Remark	Verdict
Anbotek	holotenten protek prisoten priso	ak nabotek kabot	Antonorok
5.1.5	Terminals, connections and operating devices	tek nobotek Anbore	P
5.1.5.1	General	stek unbotek Anbore	Р
tek An	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked	Anbotek Anbotek Anb	nbotek P An
hotek	Insufficient space, symbol 14 used	And hotek Anboter	And Nek
Anbotek	Push-buttons and actuators of emergency stop devices and indicators:	nek Anbotek Anboten	Anbor Anbor
Anbois	used only to indicate a warning of danger or	abotek Anboten And	at N ant
ek Ant	the need for urgent action	abotek Anboren Ano	over N
botek.	coloured red	Anboren A	N
abotek	coded as specified in IEC 60073	abotek Anboten	Nek
Anbotek	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):	lek Anbolek Anbole	Anbotel
Aupon	to safety of persons; or	botek Anbon An	or N prob
sk Anb	safety of the environment	unbotek Anbor Al	votek N p
potek p	Indication of emergency stop devices	Anbotek Anbot Al	wote N
5.1.5.2	Terminals	anbotek Anbote	hotek
nbotek	Mains supply terminals identified	ek nbotek Anborn	AM N Notek
abotel	Other terminal marking:	tek anbotek Anboto	Ann
M	a) Functional earth terminals (symbol 5 used)	por A potek Anbot	NAR
rok bi	b) Protective conductor terminals:	Anbo, Ak abotek An	PA
or P	Symbol 6 is placed close to or on the terminal;	Anbor Ar Abotek	Aupoten P
nbor	Part of appliance inlet	Anboi Air abotek	Anbon
Anboit	c) Terminals of control circuits(symbol 7 used)	ok Anboi An An	Noten
	 d) Hazardous live terminals supplied from the interior 	otek Anbore An	Anbo
xek h	Standard mains socket outlet; or	unbo tek nbotek Ant	N
, ek	Ratings marked; or	Anbo tek pobotek	N ^{bote}
nbo. rek	Symbol 14 used	Anbo, tek abotek	Anb ^o N
5.1.6	Switches and circuit-breakers	Anbor An An Abotek	N
Anbor	If disconnecting device, off- position marked	otek Anbor An bote	4 Nabot
Anboi	If push-button used as power supply switch:	nbotek Anborn And	olek N An
of Ma	Symbol 9 and 15 used for on-position	tek obor An	welt N

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- dek	stipo. Ai set socie. An	noter prior	- AN
Clause	Requirement – Test	Result - Remark	Verdict
Anbo	Pair of symbols 9, 15 and 10, 16 close together	er Anbu stek Anbotek	N
	a woler prop-	otek Anbo tek Anbore	r pape
5.1.7 And	Equipment protected by double insulation or reinforced insulation	Inbotek Anbo, Anb	olek N pr
te An	Protected throughout (symbol 11 used)	Anbore Ant wotek A	poter N
bote.	Only partially protected (symbol 11 not used)	Anbotes And wotek	NupotN
5.1.8	Field-wiring terminal boxes	No such parts	Anbotek
	If terminal or enclosure exceeds 60°C:	otek Anboten Anbo	Nibot
Anboth	Cable temperature rating marked	hotek Anbotek Anbo	N
ek prut	Marking visible before and during connection or beside terminal	Anbotek Anbotek Anbo	potek N
5.2	Warning markings	Anboren Anbo	nbotek
Anborek	Visible when ready for normal use	Anborek Anbo	Pen
Anbotok	Are near or on applicable parts	tek Anbolek Anbo	Poote
Anbote	Symbols and text correct dimensions and colour:	otek Anbotek Anbol	Р
ak Aup	a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background	Anbotek Anbotek Anbo	otek P
otek p	 b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and 	Anbotek Anbotek	unbote P
Anbotek	0.5 mm depth or raised if not contrasting in colour	ek Anbotek Anbotek	Anbotel
Anboro	If necessary marked with symbol 14	potek Anbors All	ek Panb
otek Anbr	Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted	Anbotek Anbotek An	opte ^k P A
5.3	Durability of markings	Anbotek Anbo	P
Anbotek	The required markings remain clear and legible in normal use	(see appended table)	Anbotek
5.4	Documentation	potek Anbo h	Anbo
5.4.1	General	unbolok Anbo kek ot	otek P A
hotek pr	Equipment is accompanied by documentation for safety purposes for operator or responsible body	Anborek Anborek	aboten P
Anbotek	Safety documentation for service personnel authorized by the manufacturer	Anbotek Anbotek	Anbol N Anbotek
Anbois	Documentation necessary for safe operation is provided in printed media or	otek Anboitek Anbotek	Panbo
.e.k	in electronic media if available at any time	hobe tek abotek Anb	Р
- ak	Documentation includes:	Aupon pin pin	100101
polit	a) Intended use	Anboit Aline	Anbotek P

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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	knot hotek inbolek Anbo	ek Anborer And horek	Anborek
Anbote	b) Technical specification	otek Anboten Anb	P
Anbr	c) Name and address of manufacturer or supplier	totek Anboten Anb	P P
Ket A	d) Information specified in 5.4.2 to 5.4.6	Ant hotek Anbotek Anbo	P
botek	e) Information about how to mitigate risks remaining	Anbotek Anbotek A	P Anbotek
	f) accessories for safe operation of the equipment specified	Anboten Anu	AntPrek
Anto Anbo	g) guidance provided to check correct function of the equipment, if incorrect reading may cause a hazard from harmful or corrosive substances of hazardous live parts	Anbotek Anbotek Anbotek Anbotek	P ^{obu} e ^k An
botek	h) Instructions for lifting and carrying (see 7.5)	Anbotek Anboi tek	N
Anbotek	Warning statements and a clear explanation of warning symbols:	Anbotek Anbotek	AnbBiek
Ann	Provided in the documentation; or	And otek Anbotek	N
Ano	Information is marked on the equipment	aboten Anburgek anbot	N Ant
5.4.2	Equipment ratings	Anbotek Anboutek an	otek
poter	Documentation includes:	Anbotek Anbo, pr	abotek-
Anboten	a) Supply voltage or voltage range	AC3X220V/380V	Patt
Anbotek	Frequency or frequency range	50Hz	Note
anbote	Power or current rating	otek unbotek Anbou	N
k Ant	b) Description of all input and output connections in accordance to 6.6.1 a)	Anbotek Anbotek Anbot	P P
otek	c) Rating of insulation of external circuits as required by 6.6.1b)	Anbotot Ano	nbote ^K N
Anbotek	d) Statement of the range of environmental conditions	Ambient temperature: 5°C~40°C	Ant P Anbotel
NUPON	e) Degree of ingress protection (IP, IEC 60529)	IPX0	Panbr
PUD	f) Impact rating less than 5 J	Anbotek Anboy ek ab	Yek P N
ster p	IK code in accordance to IEC 62262 marked or	anboren Anbor Ar	bote ^K N
nbotek	symbol 14 of table 1 marked, with	Anbotek Anbot A	P
Anbotek	RATED energy level and test method stated	ek nobotek Anbote	Notek
5.4.3	Equipment installation	stell Anboten Anboten	wo
p. do	Documentation includes instructions for:	stek nbotek Anboter	-k
ek	a) Assembly, location and mounting requirements	Anbovek Anbovek Anbo	Р
4. 494	b) Protective earthing	Anboy wek abotek Ar	N
(PO)	c) Connections to supply	Anbor All stek	Anborer P

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Clause	Requirement – Test	Result - Remark	Verdict
Clause		Result - Remark	verdict
All	d) Permanently connected equipment:	ak abotek Anboter	hup.
Alle	1) Supply wiring requirements	ore Ann Anbotek Anbotek	N
tek bu	2) If external switch or circuit-breaker, requirements and location recommendation	nbotek Anbotek Anbo	N N
botek	e) ventilation requirements	Anbotet Anbone Al	N
Anbotek	f) special services (e. g. air, cooling liquid)	Anbotek Anbore	Nrek
nbotek	g) Instructions relating to sound level	tek unbotek Anbore	N
5.4.4	Equipment operation	stek Anbotek Anbote	
ek pr	Instructions for use include:	ntek nbotek Anbot	- 40 - 40
potek	a) identification and description of operating controls	(see user manual)	P
nbotek	b) Positioning for disconnection	anbotek Anbois	Net
nbotek	c) Instructions for interconnection	ak spotak Anbols	Phote
Phil abott	d) Specification of intermittent operation limits	(see user manual)	Р
N N	e) Explanations of symbols used	bort Anbotek Anbot	PAR
bio.	f) Replacement of consumable materials	Anbolis ak botek Ant	N
0	g) Cleaning and decontamination	Anbolin Ann hotek	unbote N
Anboth	h) Listing of anypoisonous or injurious gases and quantities	Anboitek Anbotek	AntoN
Anbote	i) RISK reduction procedures relating to flammable liquids (see 9.5)	potek Arbotek Anbone	N
rek Anb	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1	Anbotek Anbotek Anb	ote ^k N p
nbotek	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids	Amborek Anborek P	nbote N.
Anbotek	A statement about protection impairment if used in a manner not specified by the manufacturer	K Ambotek Ambour	All N Notel
5.4.5	Equipment maintenance and service	otek Anboten Anbo	- nbc
Anbo	Instructions for responsible body include:	hotek Anboten Anbo	tek -
Hek A	Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety:	Anbotek Anbotek Anb	botek P
nbotek ntek	Instruction against the use of detachable MAINS supply cord with inadequate rating Specific battery type of user replaceable batteries	Anbotek Anbotek	P. P.
Anbo	poten And	Anbo stek sobotek	Boten
Anbo	Any manufacturer specified parts	stek Anbo. A. Abotek	Pabo
Anbo	Rating and characteristics of fuses	hbotek Anbois An	P P
iek pr	Instructions include following subjects permitting safe servicing and continued safety:	Anbotek Anbote And	potek P
	 a) product specificRISKSmay affect service personnel 	Anboten Anbo stek	Anbot P

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p.e.	otek unboten Anbo	wat wootek	Anbors An	stek snb	oten And
Joter P		EN 61010-1			
Clause	Requirement – Test	Anboutek Anbotek	Result - Remark	botek	Verdict
Anbore	And stek abover	Anbo ok ho	tek Anbor	har tek	anboret
Anbotel	b) protective measures for	theseRISKS	hotek Anbotek		Pubotel
K anbr	c) verification of the safe sta	ate after repair	Lotek Anbotel	Anbo	P P
5.4.6	Integration into systems or special conditions	effects resulting from	Anbotek Anbo	untek Anbe	botek N A
nboten	Aspects described in docur	mentation	Anboten A	npuntek	Anbo'N

6 Anboten	Protection against electric shock	otek Anboten Anbo	nbotek
6.1 Manbole	General	hotek Anbotek Anbot	ex - abo
6.1.1	Requirements	hotek Anbotek Anbo	- 40 K
ibotek f	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION	Comply with requirement	Anboten Anboten
Allotok	ACCESSIBLE parts not HAZARDOUS LIVE	ek abotek Anbote	A ^{mb} P tek
Anbotel	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:	botek Anbotek Anbotek	P Anbot
dek n	ACCESSIBLE parts and earth	Anto otek unbotek Ant	N
Anbotek	Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m	Anborek Anborek	Anbotek
Anboron	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11	ek Anboren Anborek	Ploten
6.1.2	Exceptions	but tek nbotek Anbote	Ant
potek Ar	Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:	Anborek Anborek Anb	ote N Am
Anbotek	a) parts of lamps and lamp sockets after lamp removal	Anbotek Anbot	AnboNK
Anbotek	 b) parts to be replaced by operator only by the use of tool and warning marking 	otek Anbolek Anbolek	AN
ik Anbot	Those parts not hazardous live 10 s after interruption of supply	unbotek Anbotek Anbo	tek N Anb
obotek An	Capacitance test if charge is received from internal capacitor	Anbotek Anbotek A	ibo ^{tek} N P
6.2	Determination of accessible parts	k sbotek Anbote	Ann
6.2.1	General	Lak abotek Anbote	Ann
K Anbott	Unless obviously determination of accessible parts as specified in 6.2.2 to 6.2.4	nbotek Anbotek Anbotek	P ^{nb}
6.2.2	Examination	Anbotek Anbois An	notek P A
- stek	- with jointed test finger (as specified B.2)	wotek anboit Al	Р

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nbutek	Ander Ander Ander Ander	ak popotek pobote	All of allot
Anbotek	- with rigid test finger (as specified B.1) anda force of 10 N	otek Anbotek Anbotek	P
5.2.3	Openings above parts that are hazardous live	No openings	ION N PC
ootek An	- test pin with length of 100 mm and 4 mm in diameter applied	Anbotek Anbotek Ar	botek N
5.2.4	Openings for pre-set controls	An hotek Anboten	Ant Nek
Anbotek	- test pin with length of 100 mm and 3mm in diameter applied	nek Anbotek Anbotek	AnN Anbot
6.3 Antone	Limit values for accessible parts	sbotek Anboto Ant	et - anl
6.3.1	Levels in normal condition	abotek Anboter Anbo	otek P
otek p	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	Accessible enclosure voltage less than limit value	AnboteP
Anborek	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	Anborek Anborek	AntN
Anbotel	Voltages are not HAZARDOUS LIVE the levels of:	otek Anbotek Anbot	K Pr
k Anbr	 b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz 	Anborek Anborek Anbor Anborek Anborek An	otek N All
nboron	for wet locations measuring circuit A.4 used	Anboron Anos	N
Anboren	c) Levels of capacitive charge or energy less:	ak Anboros Anno otak	Note
Anboten	1) 45 μ C for voltages up to 15 kV peak or d.c. or line A of Figure 3	potek Amboten Anbote	K N _{pinto}
Hek pr	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	Anborek Anborek Anb	ote ^K N
5.3.2	Levels in single fault condition	Anbotek Anbot	PX
Anbotek	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	Accessible enclosure voltage less than limit value	Anborel
Anbo	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	hotek Anbotek Anbotek	N _{inb} r
iek an	Voltages are notHAZARDOUS LIVEthe levels of:	and hotek anbotek Anb	Next.
botek Anbotek	 b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz 	Ante Anbotek Anbotek P Anbotek Anbotek A	Anbotek
Aupore	for wet locations measuring circuit A.4 used	otek Anbore Ant	Nabo
Anbot	c) Levels of capacitive charge or energy less:	nbotek Anboth And	e ^x N _p
ek Ant	1) 45 μ C for voltages up to 15 kV peak or d.c. or line A of Figure 3	Anbolek Anbolek And	potek N

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com



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2) 350 mJ stored energy for voltages above 15 kV peak or d.c. Image: Store of the image in the image i	Clause	Requirement – Test	Result - Remark	Verdict
kV peak or d.c. 6.4 Primary means of protection 6.4.1 ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means: a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2) b) BASIC INSULATION(see 6.4.3) c) Impedance (see 6.4.4) 6.4.2 Enclosures and protective barriers - meet requirements of 8.1 - meet requirements of A.1 - meet requirements of A.1 - meet requirements of CCCESIBLE parts and HAZARDOUS live parts, if protection is provided by limited access 6.4.3 Basic insulation - meet CLEARANCE, CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access 6.4.4 Impedance Impedance in insulation requirements a limits current or voltage to level of 6.3.2 b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: a) PROTECTIVEBONDING(see 6.5.2) b) SUPPLEMENTARYINSULATION (see 6.5.3)	Clause	requirement – rest	Result - Remark	Verdict
6.4.1 ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means: a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2) b) BASIC INSULATION(see 6.4.3) c) Impedance (see 6.4.4) 6.4.2 Enclosures and protective barriers - meet requirements for BASICINSULATION, if protection is provided by insulation - meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access 6.4.3 Basic insulation - meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7 6.4.4 Impedance Impedance Impedance 0 ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access 6.4.3 Basic insulation - meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements: a) limits current or voltage to level of 6.3.2 b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and suppl	Anbotek		otek Anbotek Anbotek	N Anbo
HAZARDOUS LIVE by one or more of following means: a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2) b) BASIC INSULATION(see 6.4.3) c) Impedance (see 6.4.4) 6.4.2 Enclosures and protective barriers meet rigidity requirements of 8.1 meet requirements for BASICINSULATION, if protection is provided by insulation meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access 6.4.3 Basic insulation meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7 for the comparison of the impedance used as primary means of protection meets all of following requirements:	6.4	Primary means of protection	Inbotek Anbo, tek obc	P Pr
(see 6.4.2) b) BASIC INSULATION(see 6.4.3) c) Impedance (see 6.4.4) 6.4.2 Enclosures and protective barriers - meet rigidity requirements of 8.1 - meet requirements for BASICINSULATION, if protection is provided by insulation - meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access 6.4.3 Basic insulation - meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7 6.4.4 Impedance Impedance Impedance insulation requirements: a) limits current or voltage to level of 6.3.2 b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7 6.5 Additional means of protection in case of single fault condition 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: a) PROTECTIVEBONDING(see 6.5.2) b) b) SUPPLEMENTARYINSULATION (see 6.5.3)	6.4.1	HAZARDOUS LIVE by one or more of following	Anbotek Anbotek Ar Anbotek Anbotek Ar	botek P
c) Impedance (see 6.4.4) 6.4.2 Enclosures and protective barriers . - meet rigidity requirements of 8.1 . - meet requirements for BASICINSULATION, if protection is provided by insulation . - meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access . 6.4.3 Basic insulation . - meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7 . 6.4.4 Impedance used as primary means of protection meets all of following requirements: . a) limits current or voltage to level of 6.3.2 . b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate . c.) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of 8.7 . 6.5.1 Additional means of protection in case of single fault condition . 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: . a) PROTECTIVEBONDING(see 6.5.2) . . b) SUPPLEMENTARYINSULATION (see 6.5.3) . .	Anbotek		hek subotek Anbotek	AnPten
6.4.2 Enclosures and protective barriers . - meet rigidity requirements of 8.1 . - meet requirements for BASICINSULATION, if protection is provided by insulation . - meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access . 6.4.3 Basic insulation . - meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7 . 6.4.4 Impedance . Impedance used as primary means of protection meets all of following requirements: . a) limits current or voltage to level of 6.3.2 . b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate . c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7 . 6.5 Additional means of protection in case of single fault condition . 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: . a) PROTECTIVEBONDING(see 6.5.2) . .	abote	b) BASIC INSULATION(see 6.4.3)	tek nbotek Anbort	Р
- meet rigidity requirements of 8.1 - - meet requirements for BASICINSULATION, if protection is provided by insulation - - meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access - 6.4.3 Basic insulation - - meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7 - 6.4.4 Impedance - Impedance used as primary means of protection meets all of following requirements: - a) limits current or voltage to level of 6.3.2 - b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate - c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7 - 6.5.1 AccessIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: - a) PROTECTIVEBONDING(see 6.5.2) - - b) SUPPLEMENTARYINSULATION (see 6.5.3) -	ek sob	c) Impedance (see 6.4.4)	nbo tek pobotek Anbo	N
- meet requirements for BASICINSULATION, if protection is provided by insulation - meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access 6.4.3 Basic insulation - meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7 6.4.4 Impedance Impedance used as primary means of protection meets all of following requirements: a) limits current or voltage to level of 6.3.2 b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: a) PROTECTIVEBONDING(see 6.5.2) b) SUPPLEMENTARYINSULATION (see 6.5.3)	6.4.2	Enclosures and protective barriers	Anbor tek sobotek An	P
protection is provided by insulation - meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access 6.4.3 Basic insulation - meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7 6.4.4 Impedance Impedance Impedance a) limits current or voltage to level of 6.3.2 b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: a) PROTECTIVEBONDING(see 6.5.2) b) SUPPLEMENTARYINSULATION (see 6.5.3)	POT P	- meet rigidity requirements of 8.1	Anboi tak sobotek	Anbot N
CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access	Anbonek		ek Anbotek Anbotek	AntiN
- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7 6.4.4 Impedance Impedance used as primary means of protection meets all of following requirements: Impedance a) limits current or voltage to level of 6.3.2 Impedance b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate Impedance c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7 Impedance 6.5.1 Accessible parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: Impedance a) PROTECTIVEBONDING(see 6.5.2) Impedance 6.5.3) Impedance 6.5.3	Anbotel	CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided	botek Anbotek Anbotek Anbot	k N Ant
and solid insulation requirements of 6.7 6.4.4 Impedance Impedance used as primary means of protection meets all of following requirements: Impedance a) limits current or voltage to level of 6.3.2 Impedance b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate Impedance meet requirements of BASICINSULATION of 6.7 6.5 Additional means of protection in case of single fault condition Impedance meet of single fault condition 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: Impedance for the formation of single for the si	6.4.3	Basic insulation	Anbor Ar hotek	unbote P
Impedance used as primary means of protection meets all of following requirements: Impedance used as primary means of protection meets all of following requirements: a) limits current or voltage to level of 6.3.2 b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7 Impedance for the impedance meet requirements of BASICINSULATION of 6.7 6.5 Additional means of protection in case of single fault condition Impedance for the impedance meet requirements of BASICINSULATION of 6.7 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: Impedance of the impedance for the impedance of the impedance of the impedance meet requirements of supplemented by one of: a) PROTECTIVEBONDING(see 6.5.2) b) SUPPLEMENTARYINSULATION (see 6.5.3)	Anboto		Anbolis Anbolak	AntoP
meets all of following requirements: a) limits current or voltage to level of 6.3.2 a) a) limits current or voltage to level of 6.3.2 b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate a) c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7 b) 6.5 Additional means of protection in case of single fault condition c) 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: c) a) PROTECTIVEBONDING(see 6.5.2) b) SUPPLEMENTARYINSULATION (see 6.5.3)	6.4.4	Impedance	tek abotek Anboro	N
b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7 6.5 6.5 Additional means of protection in case of single fault condition 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: a) PROTECTIVEBONDING(see 6.5.2) b) SUPPLEMENTARYINSULATION (see 6.5.3)	K Aupo		Anbotek Anbotek Anbot	otek N ^{Ame}
and the amount of power it will dissipate Image: Comparison of the impedance meet requirements of BASICINSULATION of 6.7 6.5 Additional means of protection in case of single fault condition Image: Comparison of the primary means of protection in case of single fault condition 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: Image: Comparison of the primary means of protection and supplemented by one of: a) PROTECTIVEBONDING(see 6.5.2) Image: Comparison of the primary means of protection and supplemented by one of: b) SUPPLEMENTARYINSULATION (see 6.5.3) Image: Comparison of the primary means of protection of the primary means of protection and supplemented by one of:	otek Ar	a) limits current or voltage to level of 6.3.2	Anbotek Anbo	abote ^W N
between terminations of the impedance meet requirements of BASICINSULATION of 6.7 6.5 Additional means of protection in case of single fault condition 6.5.1 ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of: a) PROTECTIVEBONDING(see 6.5.2) b) SUPPLEMENTARYINSULATION (see 6.5.3)	nbotek		Anbotek Anbotek	AnboN ^k
fault condition	Ante Anbotek	between terminations of the impedance meet	otek Anbotek Anbotek	A N A
HAZARDOUS live by the primary means of protection and supplemented by one of: a) a) PROTECTIVEBONDING(see 6.5.2) b) SUPPLEMENTARYINSULATION (see 6.5.3)	6.5		unboitek Anbotek Anb	her Al
b) SUPPLEMENTARYINSULATION (see 6.5.3)	6.5.1	HAZARDOUS live by the primary means of	Anbotek Anbotek Anbotek	Anbotek
	Anbotek	a) PROTECTIVEBONDING(see 6.5.2)	stek anbotek Anbore	P
and the source of the source o	anboth	b) SUPPLEMENTARYINSULATION (see 6.5.3)	stek unboliek Anbolier	Р
c) automatic disconnection of the supply (see 6.5.5)	rek Ant	c) automatic disconnection of the supply (see 6.5.5)	Anbotek Anbotek Anbo	botek N

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com



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Clause	Requirement – Test	Result - Remark	Verdict
Anborek	Anbor Ar hotek Anbore An	ak nabotek kabo	A. botek
Anbotek	Alternatively one of the single means of protection is used:	otek Anbotek Anbotek	N Anbot
ANDO	e) REINFORCED INSULATION(see 6.5.3)	inboten Anbo stek inbo	I ^{ek} N An ¹
ler bi	f) PROTECTIVE IMPEDANCE (see 6.5.4)	Anbotek Anbourtek	botek N
6.5.2	Protective bonding	Anbotet Anbo tek	abotek
6.5.2.1	ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION:	Anbotek Anbotek	Anbotek
Anbot	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or	botek Anbola Ant	ek - Ant
potek	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL	Anbotek Anbotek An	pote N
6.5.2.2	Integrity of protective bonding	Anbotek Anbo	anbotek
Anbotek Anbote	a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses	lek Anbolek Anbo botek Anbotek Anbotek	Anbotel Anbotel
pit pit	b) Soldered connections:	Anbor ak abotek An	oter _ P
on the	Independently secured against loosening	Anboi Ar botek	unbote N
Anboro	Not used for other purposes	Anbore Ann hotek	AntoN
Anboro	c) Screw connections are secured	ek Anboter Am	Noter
Anbore	d) Protective bonding not interrupted	potek Anbolen Anto	K Nanbo
K Anb	exempted as removable partcarries MAINS SUPPLY INPUT connection	Anbotek Anbotek Anto	otek N N
unbotek	e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4	Anbotek Anbotek	nbote N Anbotek
Anbotek	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)	otek Anbotek Anbotek	PN N
L Anbc	g) If mains supply passes through:	botek Anboten Anb	tek -
tek A	Means provided for passing protective conductor	Anboten Anboten Anb	N
hotek	Impedance meets 6.5.2.4	All hotek Anboten P	100 stek
Anbotek	h) Protective conductors bare or insulated, if insulated, green-and-yellow	Antotek Anbotek	Anb ^o N Anbotek
Anbote	Exceptions:	otek Anbote And Lotek	Anbot
Anbo	1) earthing braids	abotek Anbotes Anbo	et N n
rek pr	2) internal protective conductors etc.	hotek Anbotek Anb	N N
Sec.	Green/yellow not used for other purposes	Any at boten Al	N

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0	Deminstrate Test	Descritte	Mandat
Clause	Requirement – Test	Result - Remark	Verdict
And	botek Anbor Al nek Moore	And set stortek	pupo.
Anbore	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3	otek Anbore Ann	N Anboth
6.5.2.3	Protective conductor terminal	nboter And otek Anbo	iek - Ant
ter An	a) Contact surfaces are metal	Anboten Anbo	botek P
boten	b) Appliance inlet used	Anbotet Anbo	Product
Anbotek	c) For rewireable cords and permanently connected equipment, protective conductor terminal is close to mains supply terminals	Anbolek Anbolek Anbolek	AntPrek
ek ent	 d) If no mains supply is required, any protective conductor terminal: 	nbortek Anbort An	ek - Anb
potek	Is near terminals of circuit for which protective earthing is necessary	Anbotek Anbotek An	nbotek
	External if other terminals external	Anbotek Anbo.	Nek
Anbotek	 e) Equivalent current-carrying capacity to mains supply terminals 	eek Anborek Anbor	Anbotel Anbotel
AUDO	f) If plug-in, makes first and breaks last	poter Anburgetek anbot	K N And
otek p	g) If also used for other bonding purposes, protective conductor:	Anborek Anborek Ant	otek - P
. dek	Applied first	And wotek Anbotek	N _K
Antek	Secured independently	And antek Anbotek	Anbon N
Anboutek	Unlikely to be removed by servicing	and And otek unbotek	N
Ano	h) Protective conductor of measuring circuit:	poten Ann otek Anbote	Nanbr
otek A	1) Current RATING equivalent to measuring circuit TERMINAL;	Anbotek Anbotek Anb	otek N A
hotek	2) PROTECTIVE BONDING:	An botek Anboter A	N
no hotek	Not interrupted; or	k hotek Anboten	AND N tek
Anbotek	i) Functional earth terminals allow independent connection	otek Anbotek Anboten	AN Anbo
kek Anbo	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:	unbotek Anbotek Anb	het P An
.ok	Suitable size for bond wire	Anbou ek stotek A	iteoten P
nbo.	Not smaller than 4,0mm (No. 6)	Anbor Antotek	Anbole
Anbor	At least 3 turns of screw engaged	Anborn Ann Andek	ArPoter
Anboin	Passes tightening torque test	otek Anborn Ann hotek	Panbot
ek anboi	k) Contactpressure not capable being reduced by deformation of materials	nbotek Anboin And	et N An
6.5.2.4	Impedance of protective bonding of plug- connected equipment	Anbour Autotek Ar	N

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Clause	Requirement – Test	Result - Remark	Verdict
Anboten	And tek anbotek Anboit An	ak Anboten And	aboret
Anbotek Anbo	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:	otek Anbotek Anbotek Anbotek Nbotek Anbotek Anbotek Anb	k Anbo'
, alk	less than 0,1 Ohm; or	Anborrek Abotek A	N ^{botto}
hototek	less than 0,2 Ohm if equipment is provided with non detachable cord	Anbonek Anbotek	AnboleN
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	nek Anbotek Anbotek	Anbor
6.5.2.6	Transformer protective bonding screen	hotek Anbourtek abo	state N And
ek An	Transformer provided with screen for protective bonding:	Anborek Anborek A	hootek N
Anbotek	screen bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses (see6.5.2.2 a)	ek Anbotek Anbotek	Anbo N Anbotek Anbotek
Anbon ak Ant	screen bonding with soldered connection (see 6.5.2.2 b) is:	potek Anborek Anbo	of N Ant
stek	- Independently secured against loosening	And otek Anbotek Ar	N
Hek	- Not used for other purposes	And stek subotek	Anbor N
6.5.3	Supplementary insulation and reinforced insulation	ek Anbotek Anbotek	Anbpe
Anbote	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	potek Anboten Anbo	ek P _{Anb}
6.5.4	Protective impedance	Anbore An botek An	o ^{sten} N P
	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbo, Anbotek	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCE DINSULATION of 6.7	otek Anbortek Anbotek	Anbo
stek And	The protective impedance consists of one or more of the following:	unbotek Anbotek Ant	stek N M
nbotek	a) appropriate single component suitable for safety and reliability for protection, it is:	Anbotek Anboten I	Anboth
Anboro	1) RATED twice the maximum WORKING VOLTAGE	Anbortek Anborek	N
Anbo	2) resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE	nbotek Anbotek Anbote	N
tek pr	b) combination of components	Anbotek Anbo, tak	botek N
botek	Single electronic device not used asPROTECTIVE	Anbotek Anbor P	AnbotN

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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Clause	Requirement – Test	Result - Remark	Verdict
Anboten	hand tek anborek Anbor All	ak Anboten Anbo	. aborek
6.5.5	Automatic disconnection of the supply	otek Anbotek Anbo	N
Anbo	a) RATED to disconnect the load within time specified in Figure 2	nbotek Anbotek Anbo	e ^k N
le. Ar	b) RATED for the maximum load conditions of the equipment	Anbotek Anbotek A	pote ^k N
6.5.6	Current- or voltage-limiting device	An botek Anboten	Anu Nek
Annotek	Device complies with all of:	An hotek Anboten	N
Anbot	a) RATED to limit the current or voltage to the level of 6.3.2	abotek Anbotek Anbotek	N ^{DD}
ek An	b) RATED for the maximum working voltage; and	abotek Anbots Att	otek N
potek vek	RATED for the maximum operational current if applicable	Anbotek Anbotek An	AnboteN
Anbon Anbotek Anbote	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7	ek Anborek Anborek	Ani N Anborr
6.6	Connections to external circuits	hotek Anboten Anb	Nek P
6.6.1	Connections do not cause ACCESSIBLE parts of the following to become HAZARDOUS LIVE in NORMAL CONDITION or SINGLE FAULT CONDITION:	Anbotek Anbotek Anbotek	Anbotek
And	- the external circuits	an And stek Anbotek	P Poor
Anbo	- the equipment	poten Anbo tek nobote	Panb
Aup.	Protection achieved by separation of circuits; or	Anbotek Anbo tek ob	ote ^k P p
otek p	short circuit of separation does not cause a HAZARD	Anborek Anborek	nbote ^V P
unu otek	Instructions or markings for each terminal include:	Ant otek Anbotek	Anbo, P
Anu	a) Rated conditions for terminal	And stek anbotek	P
Anb	b) Required rating of external circuit insulation	oter And tek inbote	Nenbo
6.6.2	Terminals for external circuits	inboten Anbo	tek - A
nbotek k	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection	Anbotek Anbotek A	anbotek N
6.6.3	Circuits with terminals which are hazardous live	No such hazardous live terminals	Antrotek
	These circuits are:	tek nbotek Anbote	Plum
ek.	Not connected to accessible conductive parts; or	nbor At stotek Anbo	N P
hbotek	Connected to accessible conductive parts, but are not mains circuits and have one terminal contact at earth potential	Anbotek Anbotek Ar	poter N

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com



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Clause	Requirement – Test	Result - Remark	Verdict
Anboten	hand tek antootek Antool All	k Anboten Anbo	anborek
	No accessible conductive parts are hazardous live	otek Anbotek Anbo	N
6.6.4	Accessible terminals for stranded conductors	wotek anbotek Anbo	et -
sek or	No RISK of accidental contact because:	na stek snbotek Anbr	N
stek	Located or shielded	And stek unbotek A	N
Anbotek	Self-evident or marked whether or not connected to ACCESSIBLE conductive parts	Anbotek Anbotek	Anbol N nbotek
Anboten	ACCESSIBLE TERMINALS will not work loose	tek anbotek Anbo	N
6.7	Insulation requirements	otek Anbotek Anboi	at
6.7.1	The nature of insulation	neo atek unbotek Anbo	
6.7.1.1	Insulation between ACCESSIBLE parts or between separate circuits consist of CLEARANCES, CREEPAGE DISTANCES and solid insulation if provided as protection against a HAZARD	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
6.7.1.2	Clearances	otek Anbotek Anbo	Р
ek Ant	Required CLEARANCES reflecting factors of 6.7.1.1	Anborek Anborek Anbo	otek P
Anbotek	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010- 1 applied	Anbotek Anbotek	Anbotek
6.7.1.3	Creepage distances	ek Anboten Anb	Roote
Anbore	Required CLEARANCES reflecting factors of 6.7.1.1	potek Anbonen Anboh	P PAnb
, alt	CTI material group reflected by requirements	Anborrek Ant	Р
olo P	CTI test performed	Anbors All botek	nboten P
6.7.1.4	Solid insulation	Anbolis A hotek	Anb N
Anbotek	Required CLEARANCES reflectingfactors of 6.7.1.1	tek anbotek Anbotek	At Notes
6.7.1.5	Requirements for insulation according to type of circuit	unbotek Anbotek Anbo	otek A
nbotek k	a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V	Anbotek Anbotek A	Anbotek N
Anboten	b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transformer	e Anboren And	Piter
Anbo	c) In K.1 for mains circuits of overvoltage category III or IV or for overvoltage category II over 300V	nbotek Anbotek Anbote	N ^{me}
tek Ar	d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer	Anbotek Anbotek An	natek P
100	e) In K.3 for circuits that have one or more of:	Anb	Anborn



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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And satek anbolek Anbo k	ak Anboite And Lotek	anborek
	1) maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT	otek Anbotek Anbotek Anbotek	N Anbo
tek Al	2) maximum TRANSIENT OVERVOLTAGE above the level of MAINS CIRCUIT	Anbotek Anbotek And	nbotek N
hotek	3) WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage	Anbonek Anbotek	Anbotek
Anbotek	4) WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform	hotek Anbotek Anbotek	N
ek pr	5) WORKING VOLTAGE with a frequency above 30 kHz	Anbotek Anbotek Anbo	ipotek N
6.7.2	Insulation for mains circuits of overvoltage II with a nominal supply voltage up to 300V	Anbotek Anbotek	Anbotek
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES	ek sootek Anboten	P
pin	Values for MAINS CIRCUITS of table 4 are met	werk abotek Anbotek	Р
sk Au	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	anbotek Anbotek Anbo	P Am
6.7.2.2	Solid insulation	abotek Anbots An	N
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	Anbotek Anbotek	Anbolek
Anbote	Equipment passed voltage tests of 6.8.3 with values of Table 5	potek Anbotek Anbot	N Anbr
Pup	Complies as applicable:	Anbores Ando otek And	o ^{tek} N P
oter I	a) ENCLOSUREor PROTECTIVE BARRIER Clause8	Anborek Anborek	Anbote ^K N
Anbotek	b) moulded and potted parts requirements of 6.7.2.2.2	ak Anbotek Anboter	Anb N Anbotek
Anbois	c) inner layers of printed wiring boards requirements of 6.7.2.2.3	otek Anbortek Anborek	N _{Lnb} o
tek .	d) thin-film insulation requirements of 6.7.2.2.4	unbo stek unbotek Ant	N
6.7.2.2.2	Moulded and potted parts	Anbo stek anbotek	N N
Anbotek	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed	Anbotek Anbotek	Anb ^o N Anbotek
6.7.2.2.3	Inner insulation layers of printed wiring boards	bre Ant Lotek Anbote	Nabo
ek Ano	Separated by at least 0,4 mm between same two layers	hbotek Anbotek Anb	ofek N M
botek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Ano hotek Anbotek A	N

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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10	EN 61010-1	Anbo Ak botak A	nbore
Clause	Requirement – Test	Result - Remark	Verdict
Anbo	A. hatek Anbote, And atek Anbote	Anbo Anbotek	Anbore
Anbote	a) thickness at least 0,4 mm	otek Anbore Ant	N
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	nbotek Anbotek Anbo	ek N Anb
Anbotek Anbotek	c) insulation is assembled of minimum two separate layers, where the combination is rated for test voltage of Table 5 for REINFORCED INSULATION	Anbotek Anbotek Anbotek	Anbotek
6.7.2.2.4	Thin-film insulation	her Anburgtek Anbotek	NNO
tek Ant	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	Anbotek Anbotek Anbo	o ^{stek} N An ^{br}
nbotek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Anbortek Anbortek	Anbotek N
nbotek	a) thickness at least 0,4 mm	ek unbotek Anbort	A"N N hotek
anbotel anb	 b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION 	botek Anbotek Anbotek	K Anbo
potek Anbotek	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests of 6.8.3 with values of Table 5 for REINFORCED INSULATION	Anbotek Anbotek An Anbotek Anbotek	Anbotek
6.7.3	Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V	ek Anborek Anborek Anborek	N ofer
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:	Anboten Anbotek Anb	ote ^k N An
-otek	- REINFORCED INSULATION	Anthe Anbotek	N _K
Ano	- DOUBLE INSULATION	Anno otek Anbotek	Anbon N
Anbotek	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL	otek Anbolek Anbolek	PN subor
6.7.3.2	CLEARANCES	hotek Anbotek Anbo	et P
obotek An	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or	Anbotek Anbotek Anbotek A	isotek P
Anbotek	twice the values of Table 6 for REINFORCED INSULATION	Anbotek Anbotek	Prek
Anbort	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:	hotek Anborek Anborek	Pribone
otek An	1) values forREINFORCED INSULATION are 1,6 times the values for BASIC INSULATION	Anbotek Anbotek Anbo	potek P

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cho ¹⁰¹	hind - det hinder hi	D HOOL AND	19/01
Clause	Requirement – Test	Result - Remark	Verdict
Anbotek Anbotek Anbo	2) if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3	otek Anbotek Anbotek Anbotek	P
obotek An	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3	Anbotek Anbotek Anbo	botek N
6.7.3.3	CREEPAGE DISTANCES	- nbotek Anbois	Brek
Anbotek	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION	nek Anbotek Anbotek Anbotek	Anbote Anbote
rek Anl	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION	Anbotek Anbotek Anb	potek P
borb nbotek	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	Ambolic Annotek	AnboteN hotek
6.7.3.4	Solid insulation	ek abotek Anbote	Ann
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	botek Anbotek Anbotek	K Anbo
potek I	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION	Anbotek Anbotek An	unbotel ^N
Anbotek	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION	ek Anbotek Anboten	Anbotek Anbotek
Anboic otek Anb	b) if WORKING VOLTAGE exceeds300 V, equipment passed voltage test of 6.8.3.1 for 1 min with a test voltage of 1,5 times working voltage for BASIC or SUPPLEMENTARY INSULATION	potek Anborek	stek Ar
Anboren	value for REINFORCED INSULATION are twice the WORKING VOLTAGE	Anborek Anbotek	Anto N otek
harbotek	Complies as applicable:	ok botek Anborok	N
K NO	1) ENCLOSURE or protective barrier Clause 8	or Anborek Anbore	N
otek Ar	2) moulded and potted parts requirements of 6.7.3.4.2	Anborek Anborek Anb	hotek N An
nbotek	3) inner layers of printed wiring boards requirements of 6.7.3.4.3	Anbotek Anbotek P	Anbo N
And	4) thin-film insulation requirements of 6.7.3.4.4	Anb atek nabotek	Ň
6.7.3.4.2	Moulded and potted parts	oten Anbo tek nobotek	Nabor
stek Anbo	Conductors between same two layers are separated by applicable distancesof Table 8	nbotek Anbo	ek N Ant
6.7.3.4.3	Inner insulation layers of printed wiring boards	And worker all	N

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Clause	Requirement – Test	Result - Remark	Verdict
Anboten	Anbo Ante Anbore Ante	ak Anboten Anbo	hotek
Anbotek	Separated by at least by applicable distances of Table 8 between same two layers	otek Anborek Anborek	N Anbo
tek An	REINFORCED INSULATION have adequate electric strength; one of following methods used:	nbotek Anbotek Anbo	^{lek} N Af
botek	a) thickness at least applicable distance of Table 8	An hotek Anboter Ar	N
Anbotek	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION	Anbotek Anbotek	Anbotek Anbotek
ek Anbo	c) insulation is assembled of min two separate layers, where the combination is rated for 1,6 times the test voltage of Table 6	hotek Anbotek Anbotek Anbot	ek N An
6.7.3.4.4	Thin-film insulation	An hotek Anbotek An	N
Anbotek	Conductors between same two layers are separated by applicable CLEARANCES andCREEPAGE DISTANCES	Anbotek Anbotek	Anbo N Anbotek
Anbor	REINFORCED INSULATION have adequate electric strength; one of following methods used:	botek Anbotek Anbote	N Ant
sk Ant	a) thickness at least applicable distance of Table 8	anbortek Anbort An	ote ^k N
anbotek	b) insulation is assembled of min two separate layers, each RATEDfor test voltage of Table 6 for BASIC INSULATION	Anbotek Anbotek An	unbotek
Anboten Anbote	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests with 1,6 time values of Table 6:	otek Anbotek Anbotek potek Anbotek Anbotek tek onbotek Anbote	Anbote Anb
. alt	a.c. test of 6.8.3.1; or	Anbour put abotek Anb	N
nbotek	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages	Anbotek Anbotek	nbotek
6.8	Procedure for voltage tests	ak anbotek Anbou	hote
6.9 Anbore	Constructional requirements for protection against electric shock	otek Anbotek Anbotek	P
6.9.1	If a failure could cause a HAZARD:	unboten Anbo otek onbo	hek p
pter p	a) Security of wiring connections	Anboten Anbor http:	ibotek P
nbotek	b) Screws securing removable covers	Anbotek Anbo, P	anbo'P'
Anbotek	c) Accidental loosening	Anboten Anbor	Potel
Anbotek	d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening	otek Anbotek Anbotek	P
6.9.2	Material not to be used for safety relevant insulation:	nbotek Anbotek Anbo	e ^k N M
notek	Easily damaged materials not used	Anthotek Anbotek Ar	N
, at	Non-impregnated hydroscopic materials not used	And lak boten	Anton N. K



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Clause	Boguirement Test	Result - Remark	Vordict
Clause	Requirement – Test	Result - Remark	Verdict
6.9.3	Colour coding	wet worten Anboret	N
Aupo	Green-and-yellow insulation shall not be used except:	nbotek Anbotek Anbotek	tek An
ter br	a) protective earth conductors;	Anborek Anbor Al	botek N
botek	b) protective bonding conductors;	Anbotek Antro, tek	nbo ^t N
Anbotek	c) potential equilization conductors;	Anbotek Anboo	N
Anbotek	d) functional earth conductors	otek anbotek Anbot	N
6.10 March	Connection to mains supply source and connections between parts of equipment	botek Anbotek Anbo	lek Aul
6.10.1	Mains supply cords	Anboren Anbo	potek
poten	Rated for maximum equipment current	Anboren Anbo stek	unboteP
Anbotok	Cable complies with IEC 60227 or IEC 60245	Anbotek Anbo	anbP ^{ek}
Anbotek	Heat-resistant if likely to contact hot parts	ek Anboten Anbo	Noote
Anbote	Temperature rating (cord and inlet)	hotek Anboter Anbo	× N
ak Aup	Green-and-yellow used only for connection to protective conductor terminals	Anbotek Anbotek Anbo	otek P
potor I	Detachable cords with IEC 60320 mains connectors:	Anborek Anbotek	Anbotek .
abotek	Conform to IEC 60799; or	ek stootek Anbore	ATT N stel
hundotel	Have the current rating of the mains connector	lek abotek Anboten	N
6.10.2	Fitting of non-detachable mains supply cords	bot at abotek Anbot	Ans
6.10.2.1	Cord entry	Anbor ok botek Ant	pret P
ot p	Inlet or bushing smoothly rounded; or	Anborn Ann hotek	nbote N
nboil	Insulated cord guard protruding >5D	Anbola An hotek	Anb ^o N
6.10.2.2	Cord anchorage:	ex Anbore Ann hotek	Artooter
Anbore	Protective earth conductor is the last to take the strain	otek Anbore An	N N Anbo
stek Ar	a) Cord is not clamped by direct pressure from a screw	Anbotek Anbotek Anb	N A
nbotek	b) Knots are not used	Anbotek Anbote P	N ⁴
Anbotek	c) Cannot push the cord into the equipment to cause a hazard	Anbotek Anbotek	Nitek
Anbo	d) No failure of cord insulation in anchorage with metal parts	notek Anbotek Anbotek	N ^{abo}
iek an	e) Not to be loosened without a tool	hotek Anbotek Anbo	N N
potek	f) Cord replacement does not cause a HAZARD and method of strain relief is clear	Ambotek Anbotek A	N

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	housek probotes Ander Made	k Anborto Ann	Anboren
Anbore	Push-pull and or torque test	otek Anboro An	N
6.10.3	Plugs and connectors	abotek Anbote And	
tek pr	Mains supply plugs, connectors etc., conform with relevant specifications	Anbotek Anbotes And	botek N
	If equipment supplied at voltages below 6.3.2.a) or from a sole source:	Anbotek Anbotek	AnborN
Anbotek	Plugs of supply cords do not fit mains sockets above rated supply voltage	rek Anbotek Anbotek	Anbo
Anbo	MAINS-type plugs used only for connection to MAINS supply	nbotek Anbotek Anbo	er N pri
potek ho	Plug pins which receive a charge from an internal capacitor	Anbotek Anbotek An	hotek
abotek	Accessory MAINS socket outlets:	abotek Anbote	N
Anbotek	a) Marking if accepts a standardMAINSplug (see 5.1.3e)	ek Anbotek Anbotek	N Anbote
Anbo	b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT	botek Anbotek Anbot	K N Ant
6.11	Disconnection from supply source	And hotek Anbotek An	10' 10'F
6.11.1	Disconnects all current carrying conductors	Ann wotek Anbotek	Anbo rek
6.11.2	Exceptions	k hotek Anbotek	AUDO
6.11.3	Requirements according to type of equipment	k sotek anbotek	Pupo.
6.11.3.1	Permanently connected equipment and multi- phase equipment	poter Anbotek Anbotek Anbote	Nanb stek
otek p	Employs switch or circuit-breaker	pur abotek Anboter Ant	N
nbotek	If switch or circuit-breaker is not part of the equipment, documentation requires:	Anbotek Anboten I	Anbotek
Anboton	a) Switch or circuit-breaker must be included in the installation	K Anbois Ann Anbotek	ANOTE
	b) Suitable location easily reached	or All botek Anbore	N
p.e.	c) Marking as disconnecting for the equipment	anborto All Anborek Anb	N
6.11.3.2	Single-phase cord-connected equipment	Anboro Antotek P	boter
100's	Equipment is provided with:	Anbors Ano botek	Anboten
Anboin	a) Switch or circuit-breaker; or	Anbolis Ano botek	AT NOTOT
Anboro	b) Appliance coupler (disconnectable without tool);	otek Anborn Ano hotek	Nabo
Anbo	c) Separable plug (without locking device)	obotek Anbote And	N N
6.11.4	Disconnecting devices	Anbotek Anbote And	notek
Lotek	Electrically close to the SUPPLY	potek photom A	N

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Clause	Requirement – Test	Result - Remark	Verdict
Anbo	And And the thore And	at Anbour An otek	anbore
6.11.4.1	Switches and circuit-breakers	otek Anboten Anbo	N
	When used as disconnection device:	hotek Anbotek Anbo	N
tek al	Meets IEC 60947-1 and IEC 60947-3	hou otek anbotek Anbo	N
otek	Marked to indicate function:	And otek anbotek Ar	N
nu stek	Not incorporated in MAINS cord	And otek unbotek	Anbo N
Anbotek	Does not interrupt PROTECTIVE EARTH CONDUCTOR	tek Anbotek Anbotek	Anh
6.11.4.2	Appliance couplers and plugs	hotek Anboten Anbo	47 - 48
iek pr	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):	Anbotek Anbotek Anbu	potek F
poten	Readily identifiable and easily reached by the operator	Anbonek Anbotek	Anbotek
Anbotek	Single-phase portable equipment cord length not more than 3 m	ek Anbotek Anbotek	And N Anbotel
Anbor	Protective earth conductor connected first and disconnected last	botek Anbotek Anbote	K N Aug

7	Protection against mechanical hazards		unbo
7.1 Anbotek	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION	ek Anborek Anborek	Anbotek
Ann	Conformity is checked by 7.2 to 7.7	poter Ann wotek Anbote	PAnbo
7.2	Sharp edges	Anbote, And Lotek Anb	otek P M
loton P	Easily-touched parts are smooth and rounded	Anbotet Anb otek	nbotekP
Inboten	Do not cause an injury in normal use and	Anboten Anbo	anbo P ^K
Anboten	Do not cause an injury in single fault condition	K Anboten Anbo	Botek
7.3 Anbover	Moving parts	otek Anboten Anbo	- abot
7.3.1	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and 7.3.5	Anbotek Anbotek Anbo	rek N An
nbotek	RISK assessment in accordance with 7.3.3 carried out	Anbotek Anbotek A	AnboiN
7.3.2	Exceptions:	Anbo tek abotek	Anhote.
Anbo	Access to HAZARDOUS moving parts permitted under following circumstances:	otek Anborek Anbotek Anbotek	Noboli
Hek An	a) obviously intended to operate on parts or materials outside of the equipment	Anbotek Anbotek Anbo	potek N Al
hoten	inadvertent touching of moving parts minimized by equipment design (e .g. guards or handles) botek Compliance Laboratory Limited	Anboten Anbo	AnbotN

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Clause	Dequirement Test	Deput Demort	Vendict
Clause	Requirement – Test	Result - Remark	Verdict
Anbotek Anbotek	b) If operator access is unavoidable outside normal use following precautions have been taken:	otek Anbotek Anbotek Anbotek	N
rek pri	1) Access requires TOOL	botek Anboten Anbo	otek N
hotek	2) Statement about training in the instructions	hotek Anbotes Ar	Ν
Anbotek	3) Warning markings on covers prohibiting access by untrained operators	Anbotek Anbotek	Anbotek Anbotek
Aupore	or symbol 14 with full details in documentation	stek Anbolie And Notek	N toos
7.3.3	Risk assessment for mechanical HAZARDS to body parts	obotek Anbotek Anbo	N prot
potek	RISK is reduced to a tolerable level by protective measures as specified in Table 12	Anborek Anborek An	N sbotek
Anbotek	Minimum protective measures:	Anbotek Anboursek	Nek
anbotek	A. Low level measures	tek anbotek Anbor	N
Anbote	B. Moderate measures	otek unbotek Anbo	N
sk 500	C. Stringent measures	notek unbotek Anbor	N
7.3.4	Limitation of force and pressure	And stek unbotek Ant	N
Anbotek	Following levels are met in normal and single fault condition:	Anbotek Anbotek	unbol N
Anboten	Continuous contact pressure below 50 N / cm^2 with force below 150 N	ek Anbotek Anbotek	Anbote
k Anbr	Temporary force below 250 N for an area at least of 3 cm ² for a maximum duration of 0,75 s	obotek Anbotek Anbote	NAnb otek p
7.3.5	Gap limitations between moving parts	An botek Anbote, And	N
7.3.5.1	Access normally allowed	An botek Anboter P	N
	If levels of 7.3.4 exceeded and body part may be inserted minimum gap as specified in Table 13 assured in NORMAL and in SINGLE FAULT CONDITION	k Anbotek Anbotek otek Anbotek Anbotek	Anbotek Anbotek
7.3.5.2	Access normally prevented	anboten Anbo stek anbo	Nek N A
hotek Ar	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION	Anboten Anbor Anborek A	tbote ^k N
7.4	Stability	Ant Lotek Anbotek	Anbo-
Anbotek	Equipment not secured to the building structure is physical stable	otek Anbotek Anbotek	Anp
Anbot	Stability maintained after opening of drawers, etc. by automatic means, or	nbotek Anbotek Anbo	ek N pr
hotek	Warning marking requires the application of means	Anbor Anborek Anborek Ar	boten N

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Clause	Requirement – Test	Result - Remark	Verdict
Anipotek			horalot
Anbotel	Compliance checked by following tests as applicable:	otek Anbotek Anbotek	Anbot
PULO	a) 10° tilt test for other than handheld equipment	nbores Anbo	IN PU
hotek A	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg	Anbotek Anbotek Ar	botek N
Anbotek	c) downward force test for floor-standing equipment	Anbotek Anboten	Anb N Anbotek
Anboil	d) overload test with 4 times maximum load for castor or support that supports greatest load	tek Anborek Anborek	Niboti
ek pr	 e) castor or support that supports greatest load removed from equipment 	Anbotek Anbotek Anbo	N Att
7.5	Provisions for lifting and carrying	anbolek Anbo, rek	oboteN
7.5.1	Equipment more than 18 kg:	Anbotek Anbo	Net
Anbotek	Has means for lifting or carrying; or	rek anbotek Anbor	N
n both	Directions in documentation	otek unbotek Anbot	N
7.5.2	Handles or grips	tek nbotek Anbor	P
. ex-	Handles or grips withstand four times weight	Anbo tek nobotek Ant	Р
7.5.3	Lifting devices and supporting parts	Anboy vek potek	unbold N
unbo	Rated for maximum load; or	Anbo tek abotek	An ^b N
Anbor	tested with four times maximum static load	ek Anbor tek aborek	Note
7.6	Wall mounting	potek Anbois Att	K Anb
r Put	Mounting brackets withstand four times weight	Anbotek Anbots Att	ote ^k N p
7.7	Expelled parts	anbotek Anbott Att	hotek-
abotek	Equipment contains or limits the energy	anbotek Anboth	N
obotek	Protection not removable without the aid of a tool	K abotek Anbote	Notek
abote	K Anboro An Lotek Anborek Anbo	tek sobotek Anbote	press
3	Resistance to mechanical stresses	po potek Anbore	- Pup
3.1	Equipment does not cause a hazard when subjected to mechanical stresses in normal use	Anbotek Anbotek Anb	P
botek	Normal protection level is 5J	Considered 5J	P
Anbotek	Levels below 5 J but not less than 1 J are acceptable if all the following criteria are met	Ambotek Anbotek	ArNotek
Pupo.	a) lower level be justified by manufacturer	oten Anber tek abotek	Nabo
Anb	 b) cannot easily be touched by unauthorzed persons or the general public 	nbotek Anboi Anbo	le ^k N pr
P	c) only occasional access during NORMAL USE	Anbo, An atek	poter N

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Anbo

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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Clause	Requirement – Test	Result - Remark	Verdict
Clause	Inequirement – rest		Veruici
Ant	d) IK code in accordance to IEC 62262 marked	Ant stek anbotek	N
	or symbol 14 used with full information in the	otek Anbo. A. stel	6 Anbo
	documentation	tek sobotek Anbo	N.
	For non-metallic ENCLOSURES rated below	nbor principal not	N
	2 °C ambient temperature value chosen for	botek Anbo. A.	Note
. ok	minimum rated temperature	And tek stotek A	a bo
1001-	Impact energies between IK values, the IK code	Anboir Air tek	NootN
wotek-	marked for nearest lower value	hotek Anbo	As tek
	Conformity is checked by performing following	Ant set shotek	AUPO
pabore	tests:	tek anbore An-	bot
	1) the static test of 8.2.1	ak hotek Anbor	Р
Par	2) impact test of 8.2.2 with 5J except for hand-	porte have at the	P Ant
	held equipment	sotek anbore Ant	-94
	If impact energy not selected to 5J alternate	Ame woten An	N
	method of IEC 62262 used	Anboten And	botek
ntek.	3) drop test of 8.3.1 or 8.3.2 except for fixed and	wotek Anbor	P.W
AND	equipment with mass over 100kg	And	Anboi
	Equipment rated with an impact rating of Ik 08 by	ak unboten Ant	N
N.	that clearly meets the criteria	h sotek knoore	Pur
	After the tests inspection with following results:	boten Anbr	ex Ant
No Ne	- Hazardous live parts above the limits of 6.3.2 not	sotek unbotte And	N N
	accessible	Anbo k hotek An	bore .
otor	- insulation pass the voltage tests of 6.8	Anboto And Lak	Notodo
abotet	i) no leaks of corrosive and harmful substances	abotek Anboit	P
All.	hoter And the hot	All otek unboten	Anb
Aupo	ii) Enclosure shows no cracks resulting in hazard	ek Anbo	Potel
	iii) CLEARANCES not less than their permitted	tek nboter Anu	Р
bee	values	po. A stek mbot	Ann
	iv) the insulation of internal wiring remains	aboten Anbo	otek P
Jok .	undamaged;	An Antoren An	
	V) Protective barriers necessary for safety have	Anbo. A. otek	nbote N
aboter	not been damaged or loosened	abotes Anot	N NI
	vi) No moving parts exposed, except permitted by 7.3	An stek anboten	Anb ^o N
pribo.	vii) no damage which could cause spread of fire	the priber the worker	P
bote	with the damage which board badde spread of the	mak inboten Anbo	
8.2	Enclosure rigidity tests	o' A' votek Anbore	P
8.2.1	Static test	inborto Ant stek inb	oter P M
ptek p	- 30N with 12mm rod to each part of enclosure	Noborek Anbo, At	botek P
work	ADD AND AND ADD ADD ADD ADD ADD ADD ADD	wotek anbote	ALL
nbo ^{tek}	- in case of doubt test conducted at maximum rated ambient temperature	Anberek Anbotek	AnboN
8.2.2	Impact test	Applied to enclosure with	P
	k hotek Anbor An tek	acceptable results	Anbo
- nabo	Impact applied to any part of enclosure causing a	stek unboter Anot	et P
	hazard if damaged	into h notek unbr	pro pr
ler hi		apoter And	Marote
	Impact energy level and corresponding IK code:	pri la stor	P

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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Clause	Requirement – Test	Result - Remark	Verdict
Anboter	And rek phones Anton At hot	ak Anbores And rek	nborck
Anbotek	Non-metallic enclosure cooled to minimum rated ambient temperature if below $2^{\circ}C$	otek Anbotek Anbo	P
8.3	Drop test	nboit Ann hotek Anbo	ION N AT
8.3.1	Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	Anborek Anborek Ar	boter N
notek	Test conducted with a drop height or angle of:	Am botek Anboten	AND Nek
8.3.2	HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	tek Anbotek Anbotek	Anpo P
Anbot	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C	abotek Anbotek Anbot	ek P Ani
len. Pu	Drop test conducted with an height of 1 m	unboter And	otek P

9 nbote	Protection against the spread of fire		nbutek
9.1	No spread of fire in normal and single fault condition	lek Anborek Anborek	Anbote
ek An	Mains supplied equipment meets requirement of 9.6 additionally	borek Anborek Anbor	otek n
potek	Conformity for each source of HAZARD or area of the equipment is checked by one of the following:	Anbotek Anbotek An	unbotelP
Anboit	a) Fault test of 4.4; or	Anborn ak hotek	AnbP
Anbola	b) Application of 9.2 (eliminating or reducing the sources of ignition); or	ek Anbonek Anborek	Note
ik Ant	c) Application of 9.3 (containment of fire within the equipment)	Anbotek Anbotek Anbote	PANA
9.2	Eliminating or reducing the sources of ignition within the equipment	Anbotek Anbotek	nbotek.
Annatek	a) 1) Limited-energy circuit (see 9.4); or	Ann otek Anbotek	Anb N
Anbote	2) Insulation meets the requirements for BASIC INSULATION; OR	otek Anbotek Anbotek	P N Nnbo
K Anb	Bridging the insulation does not cause ignition	hotek Anboter And	tek N
otek p	b) Any ignition HAZARD related to flammable liquids (see 9.5)	No liquids used	teotek N
nboit	c) No ignition in circuits designed to produce heat	Anborn An hotek	AnboiN
9.3	Containment of the fire within the equipment, should it occur	k Anbole And	Antroten
Aupo	a) Energizing of the equipment is controlled by an operator held switch	nbotek Anbotek Anbotek	ok N An
stek Al	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and	Anbotek Anbotek Ar	potek P
np.	Requirements of 9.5 are met	Ant botek	Anboth



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Clause	Requirement – Test	Result - Remark	Verdict
Anboile	Ann notek pobole Ann nek pool	Anbort Anto hotek	Anboren
9.3.1	Constructional requirements	otek Anbote Ant	habote
	a) Connectors and insulating material have flammability classification V-2 or better	Fire enclosure is made of metal and plastic flame rated V-0	ek P Anb
potek	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)	Anbotek Anbotek Al	AnboteR
Anboi	c) ENCLOSURE meets following requirements:	Anborn Ar hotek	AnPre
Anboro	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:	tek Anbolek Anbolek	N loote
N- P	i) no openings; or	nbor ek abotek Anbor	P
*6/4 Pr	ii) perforated as specified in Table 16; or	Anbo kek abotek An	N
, at	iii) metal screen with a mesh; or	Anbors All Abotek	Anboron N
Anbor	iv) baffles as specified in Figure 12	Anboy ek stotek	Anto
Anboto	2) Material of ENCLOSURE and any baffle or flame barrier is made of:	Fire enclosure is made of plastic flame rated V-0	Reoter
14	Metal (except magnesium); or	tek unbotek Anbo	N
otek	Non-metallic materials have flammability classification V-1 or better	Anbotek Anbotek Ant	obotek
Anbotek	3) ENCLOSURE and any baffle or flame barrier have adequate rigidity	Anborek Anborek	AnbPak
9.4	Limited-energy circuit	And sotek anbotek	Pupo.
K Anb	a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc	poten Anto	NAnbo
otek I	b) Current limited by one of following means:	ano anotek Anboter Ano	otek-
hotek	1) Inherently or by impedance;	potek Anboten P	N
hotek	2) Over current protective device;	K botek Anboten	And N stek
Annote	3) A regulating network limits also in SINGLE FAULT CONDITION	otek Anbotek Anbotek	Anbott
Anb	c) Is separated by at least BASIC INSULATION	abotek Anboth Am	tek N Ant
stek p	Fuse or a nonadjustable electromechanical device is used	Anbotek Anbotek An	botek
9.5	Requirements for equipment containing or using flammable liquids	No flammable liquids used	AnbolN botek
Anbotek	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	otek Anbotek Anboar	N Anbote
AUPC	Risk is reduced to a tolerable level :	nbotek Anbor pr	ek Aup
rek Ar	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point	Anbotek Anbotek An	po ^{tek} N p
100	b) The quantity of liquid is limited	No such liquid used	Anboten N. v



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Clause	Description and Test	Desuit Dements	Mandiat
Clause	Requirement – Test	Result - Remark	Verdict
Anbo	h hotek Anbote Ant tek anbot	er Anbo ok horek	Anbore
Anbote	c) Flames are contained within the equipment	otek Anbots Ant	N
Anbo	Detailed instructions for risk-reduction provided	Lotek Anbotek Anbo	N
9.6	Overcurrent protection	Anbotek Anbotek Anbo	N
9.6.1	Mains supplied equipment protected	And wotek Anbotek Ar	N
Anbotek	Basic insulation between mains parts of opposite polarity provided	Anto Antootek Antootek	Anbo'N
	Devices not in the protective conductor	otek Anboten Anbo	Nibote
Anbo	Fuses or single pole circuit-breakers not fitted in neutral (multi-phase)	hotek Anbotek Anbo	ek N Ant
9.6.2	Permanently connected equipment	Anbote k hotek An	poter N
boto	Overcurrent device:	Anbote Ant hotek	Anbot N
Anbote	Fitted within the equipment; or	Anboren And And	Ant New
Anboton	Specified in manufacturer's instructions	otek Anboter Ant	Noote
9.6.3 March	Other equipment	hotek Anboten Anbo	× N no
the Ma	Protection within the equipment	ak boten Anbo	N

10	Equipment temperature limits and resistance to	heat	AND rek
10.1	Surface temperature limits for protection against burns	ek Anbotek Anbotek	Anbore
Anbore	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see appended table)	K PAND
walt Priv	- at an specified ambient temperature of 40 °C	Anbon ak abotek Ant	N
unbotek anbotek	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C	Anbotek Anbotek	Anbotek
Anbotel	Heated surfaces necessary for functional reasons exceeding specified values:	otek Anbotek Anbotek	A abor
Anbr	Are recognizable as such by appearance or function; or	unbotek Anbotek Anbo	tek N
pte. p	Are marked with symbol 13	Anbote K hotek	nbote ^K N
nbote	Guards are not removable without TOOL	Anbore, And And	anb ^o N ⁶
10.2	Temperatures of windings	anboten Anbo	And otek
Anboten	Limits not exceeded in:	otek Anboten Anb	- abo
Anbo	NORMAL CONDITION	hotek Anbotek Anbo	P
Hek al	SINGLE FAULT CONDITION	hotek Anbotek Anb	P
10.3	Other temperature measurements	(see appended table)	P
in wotek	Following measurements conducted if applicable: nbotek Compliance Laboratory Limited	Arrive otek onbotek	Anbo-

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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And stek anborek Anbor At bore	ak Anbote And stek	nborek
Anbotek	a) Value of 60 °C of field-wiring terminal box not exceeded	otek Anbotek Anbo	Anbo
Anbo	 b) Surface of flammable liquids and parts in contact with this liquids 	nbotek Anbole An	lek N An
	c) Surface of non-metallic enclosures	Anboten Ano	potek P
botek	d) Parts made of insulating material supporting parts connected to mains supply	Anbotek Anbo	AnbotN
10.4	Conduct of temperature test	Anbon An hotek	Pres
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	tek Anbone And	Panbot
10.4.2	Temperature measurement of heating equipment	aboter Anu stek abo	er N An
er Au	Tests conducted in test corner	Anboten Anbo	potek N
10.4.3	Equipment intended for installation in a cabinet or wall	Anbotek Anbotek	AnboteN
Anborotek	Equipment built in as specified in installation instructions	Anborek Anborek	AntoNe
10.5	Resistance to heat	ter Ant otek Anbotek	P
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	botek Anbotek Anbot	P And
10.5.2	Non-metallic ENCLOSURES	And Lotek Anbotek An	Р
otek.	Within 10 min after treatment:	And stek unbotek	Pak
10.5.3	Insulating material	Anbo otek Anbotek	AnDP
Anbote	a) Parts supporting parts connected to MAINS supply	potek Anbotek Anbotek	P
K Anb	b) TERMINALS carrying a current more than 0.5 A	botek Anboten Anbo	N P
otek p	Examination of material data; or	hotek Anborek Anb	P
hotek	in case of doubt::	hotek Anbotek	Noo.
hotek	1) Ball pressure test; or	k hotek Anbotek	Anto P
Anu	2) Vicat softening testof ISO 306	And ntek unbotek	Р
bupo.	k woten Anbote Anti-	poret pribu. A. wote	Anbe

11	Protection against hazards from fluids		ter - Ant
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT	Anbotek Anbotek A	ibote ^k N I
abotek	All fluids specified by manufacturer considered	k abotek Anbote	Niek
11.2	Cleaning	tek abotek Anbote	N
11.3	Spillage	b. A. A. botek Anbote.	N
11.4	Overflow	nbo, ak spotek Anbo	N AND
11.5	Battery electrolyte	Anbor ak abotek Ar	poter - P
honey	Battery electrolyte leakage presents no hazard	Anboi An hotek	Anboth

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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Clause	Requirement – Test	Result - Remark	Verdict
Anbote	And stak unbotek Andor At soft	ak Anbuite how stek	anborek
11.6	Specially protected equipment	otek Anbotek Anbo	N
11.7	Fluid pressure and leakage	Lotek Anbotek Anbo	
11.7.1	Maximum pressure	intek unbotek Anbr	Mar.
hbotek	Maximum pressure of any part does not exceed <i>P</i> _{RATED}	Anbotek Anbotek A	N Nabotel
11.7.2	Leakage and rupture at high pressure	Anboten Anbo	Niek
Anboten	Fluid containing parts subjected to hydraulic test if:	otek Anbotek Anbotek	N pribote
iek pr	a) product of pressure and volume > 200 kPal; and	nbotek Anbotek Anbo	N And
botek	b) pressure > 50 kPa	abotek Anbote Ar	N
Anbotek	Parts of refrigerating systems meets pressure- related requirements of IEC 60335-24 or IEC 60335-24	Anbotek Anbotek	Anborek Anborek
11.7.3	Leakage from low-pressure parts	otek unbotek Anbo	N
11.7.4	Overpressure safety device	otek unbotek Anbo	- Par
-tek	Does not operate in NORMAL USE	And stek Anbotek An	N
Anbotek	a) Connected as close as possible to parts intended to be protected	Anbotek Anbotek	unbole N
Anbotek	b) Easy access for inspection, maintenance and repair	ek Anbotek Anbotek	Anborek
Ann	c) Adjustment only with TOOL	poter Ann otek Anbot	Nanbi
PUL	d) No discharge towards person	Anbote, Ante otek Nat	o ^{tek} N A
oter I	e) No HAZARD from deposit of discharged material	Anbote, Anbo	nbote ^K N
nboten	f) Adequate discharge capacity	Anboten Anbo	NDBONK K
Anbotek	No shut-off valve between overpressure safety device and protected parts	ok Anboten Anbo	Notek

12 Ant	Protection against radiation, including laser sou ultrasonic pressure	urces, and against sonic and	tek - Anb
12.1	Equipment provides protection	Am hotek Anboten A	N
12.2	Equipment producing ionizing radiation	Ann hotek Anbotek	Anbo N tek
12.2.1	Ionizing radiation	Am hotek Anbotek	N
12.2.1.1	Equipment meets the following requirements:	oren And sotek Anbotek	Nabo
otek An	a) if intended to emit radiation meets requirements of 12.2.1.2; or	nbotek Anbotek Anbo	ek N Anbo
nbotek	tested, classified and marked in accordance to IEC 60405	Anbotek Anbotek A	AnboteN

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com



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Clause	Requirement – Test	Result - Remark	Verdict
Anboten	Ande rek anbotek Anbote All	ak Anboten Anbo	nbotek
Anbotek	b) if only emits stray radiation meets requirements of 12.2.1.3	otek Anborek Anbo	N Anbo
12.2.1.2	Equipment intended to emit radiation	nbotes Anbo	N P
ter Pu	Effective dose rate of radiation measured	Anbotek Anbou	bote ^k N
boten	If dose rate exceeds 5 µSv/h marked with the following:	Anbotek Anbotek	Anbo N
Ann hotek	a) Symbol 17 (ISO 361)	An hotek Anboten	N
ALL	b) Abbreviations of the radionuclides:	k Lotek Anbotek	N
Pup	c) With maximum dose at 1 m;or	ibolen Ann Anto	N AN
ootek	with dose rate value between 1 μ Sv/h and 5 μ Sv/h in m	Anbotek Anbotek An	poten N
12.2.1.3	Equipment not intended to emit radiation	abotek Anboten	An Nek
Anbotek	Limit for unintended stray radiation of 1 μ Sv/h at any easily reached point kept	ek Anbotek Anbotek	Andr
12.2.2	Accelerated electrons	botek Anbor An	M N prot
k Aup	Compartments opened only by the use of aTOOL	anbotek Anbole An	ote ^k N
12.3	Ultra-violet (UV) radiation	Conformity test under consideration	unbotek-
Anborek	No unintentional and HAZARDOUS escape of UV radiation:	Anboliek Anboliek	An ^b N
Anbotek	- checked by inspection; and	otek Anbotek Anbo	N
k anbo	- evaluation of RISK assessment documentation	otek unbotek Anbo.	N
12.4	Microwave radiation	Ante otek Anbotek Anb	-alt
Nek	Power density does not exceed 10 W/m ² :	And stek Anbotek	NK
12.5	Sonic and ultrasonic pressure	Anbo otek nabotek	Anbor
12.5.1	Sound level	an Anbo stek anbotek	Ň
Anbo	No HAZARDOUS sound emission	oter Anbo tek nbotel	Nutor
	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1	Anbotek Anbo	te ^k N p
boten	Instruction describes measures for protection	Anbotet Anbo	nbo'N
12.5.2	Ultrasonic pressure	Anboren Anbo	Notek
Anboten	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz	otek Anbotek Anbotek Anbotek	N Anbo
ek An	Equipment intended to emit ultrasound:	anbotek Anboten Ano	notek N
potek	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz	Anbotek Anboten Ar	Anbot N

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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And tek notes And ak hot	ek Anboito Ant	nboret
	If inside useful beam above values exceeded:	otek Anbotek Anbo	N
r anb	Marked with Symbol 14 of Table 1	untek anbotek Anbo	N
Jek N	and following information in the documentation:	And otek unbotek Anbo	N
tek	a) dimensions of useful beam	Anbo stek anbotek Ar	N
nbo	b) area where ultrasonic pressure exceed 110 dB	Anbu tek nbotek	AnboiN
Anbo	c) maximum sound pressure inside beam area	Anbo tek potek	N
12.6	Laser sources	otek Anbo, ek abotek	Nibote
Anbo	Equipment meets requirements of IEC 60825-1	hootek Anborn An	et N and

13	Protection against liberated gases, explosion a	nd implosion	abotek
13.1	Poisonous and injurious gases and substances	No injurious gases	N
Anbotek	No poisonous or injurious gases or substances liberated in NORMAL CONDITION	ek Anbotek Anbotek	N Anbot
Aup	Attached data/test reports demonstrate conformity	poter And stek unbot	N Pol
13.2	Explosion and implosion	Anbotet Anbo	otek
13.2.1	Components	Anboten Anbo	nbotek
Anboten	Components liable to explode:	Anboten Anbo	n nbutek
Anbotek	Pressure release device provided; or	lek Anbotek Anbo	Note
Anbote	Apparatus incorporates OPERATOR protection (see also 7.7)	potek Anbotek Anbo	K N Anto
. An	Pressure release device:	Anbote Ant Lotek Anb	otek I
oter	Discharge without danger	Anboter Anbo	nbote ^K N
nboten	Cannot be obstructed	Anboten Anbo	N
13.2.2	Batteries and battery charging	ak Anboten Anburgek	npotel
Anbote	If explosion or fire hazard could occur:	otek Anboten Anbo	
L Anb	Protection incorporated in the equipment; or	botek Anboten Anbo	N
stek p	Instructions specify batteries with built-in protection	Anbotek Anbotek Anb	ibotek N
hoto	In case of wrong type of battery used:	Anbore And Antek	Anbotek
Anbote	No HAZARD; or	Anbote Ant sotek	N
Anbote	Warning by marking and within instructions	otek Anboter And	Nabo
Anbo	Equipment with means to charge rechargeable batteries:	nbotek Anbotek Anbo	lek - pr
hotek A	Warning against the charging of non-rechargeable batteries; and	Anbotek Anbotek Ar	poter N

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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	EN 61010-1	Anboten Anbo	nbotek
Clause	Requirement – Test	Result - Remark	Verdict
Anbo	Ann stek sabores Ann sk hote	ar Anbour An atek	aboter
	Type of rechargeable battery indicated; or	otek Anboten Anbo	Nubote
4 Anbot	Symbol 14 used	hotek Anbotek Anbo	N
tek an	Battery compartment design	nu votek anbotek Anbo	N
otek	Single component failure	Ant otek Anbotek Ar	N
nutek	Polarity reversal test	Anto otek onbotek	Anbo'N
13.2.3	Implosion of cathode ray tubes	No such device used	Anbor
Anbo	If maximum face dimensions > 160 mm:	ten Anbo stek unbotek	Hupore
AUPO	Intrinsically protected and correctly mounted; or	hooten Anboutek abot	ek N Anbr
ler Aut	ENCLOSURE provides protection:	Anbotek Anbo tek	DOTEK N P
botek	If non-intrinsically protected:	anbotek Anbo, tek	abotek
anbotek	Screen not removable without TOOL	Anbotek Anbou ek	Nek
anbotek	If glass screen, not in contact with surface of tube	ek unbotek Anbot	Notek

14	Components and subassemblies		P
14.1	Where safety is involved, components meet relevant requirements	Anbotek Anbotek An	P
14.2	Motors	Anbotek Anbo	abovek
14.2.1	Motor temperatures	ek anbotek Anbo	abotek
Anbore	Does not present a HAZARD when stopped or prevented form starting; or	potek Anbotek Anbot	K N Anbot
botek I	Protected by overtemperature or thermal protection device conform with 14.3	Anbotek Anbotek Ant	otek N Ant
14.2.2	Series excitation motors	An hotek Anboten	And
Anbotek	Connected direct to device, if overspeeding causes a HAZARD	K Anbotek Anbotek	Anbonek Anbotek
14.3	Overtemperature protection devices	otek Anboit Ant	N Nanbote
ak Aup	Devices operating in a SINGLE FAULT CONDITION	abotek Anbore And	ctek N ant
ootek p	a) Reliable function is ensured	abotek Anbote Ant	N vote
Anbotek	b) RATED to interrupt maximum current and voltage	Anbotek Anbotek	Anboth
Anbor	c) Does not operate in NORMAL USE	Anbor Ar abotek	N
Anboi Anbo	If self-resetting device used to prevent aHAZARD, protected part requires intervention before restarting	otek Anbor An Anborek Anborek Anbore	Nnbote Sek Anb
14.4	Fuse holders	Anbotek Anbu	obotek N P
nbotek	No access to HAZARDOUS LIVE parts	Anborek Anbor A	Ň

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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And stek anbotes And an wolf	ak Anbois And And	anboret
14.5	Mains voltage selecting devices	otek Anboten Anbo	N
Anbot	Accidental change not possible	hotek Anbotek Anbo	N
14.6	Mains transformers tested outside equipment	nu votek anbotek Anbo	N
14.7	Printed wiring boards	And otek Anbotek Ar	N
Anbotek	Data shows conformity with V-1 of IEC 60695-11- 10 or better; or	Anbotek Anbotek	AnborN
Anboten	Test shows conformity with V-1 of IEC 60695-11- 10 or better	tek Anboten Anbotek	N Anbote
tek Anb	Not applicable for printed wiring boards with limited-energy circuits (9.4)	abotek Anbotek Anbo	N Anb
14.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	Anbotek Anbote An	AnboteN
Anbo,	Test conducted between each pair of MAINS SUPPLY TERMINALS	Anborek Anbotek	Anth
Anbotel	No HAZARD resulting from rupture or overheating of the component:	potek Anbotek Anbot	N Anbc
en Aup	- no bridging of safety relevant insulation	Anboten Anbo	otek N A
potek A	- no heat to other parts above the self-ignition points	Anbotek Anbotek	unbote ^N

15	Protection by interlocks		Anbo.
15.1	Interlocks are designed to remove a hazard before OPERATOR exposed	botek Anbotek Anbot	otek Nanbor
15.2	Prevention of reactivating	An hotek Anboten An	N
15.3	Reliability	An hotek Anboten	pinb ²
Ann Lotek	Single fault unlikely to occur; or	Am hotek Anbotek	AnDON N tek
Ano	Cannot cause a HAZARD	Anno otek anbotek	N

16	HAZARDS resulting from application	Anbote Ant otek and	otek P Anb
16.1	REASONABLY FORESEEABLE MISUSE	Anboten Anboundek	hote ^k N I
unboten botek	No hazards arising from setting not intended and not described in the instructions	Anboren Anborek	AnboN
Anbote	Other cases of reasonable foreseeable misues addressed by risk assessment	otek Anbotek Anboten	Annotel
16.2	Ergonomic aspects	abotek Anboit Ant	lek P unbr
otek p	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:	Anbotek Anboten And	botek P
nboten	a) Limitation of body dimensions	Anboten Anbo	P

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oten p	EN 61010-1	Anboten Anbo	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
Anbote	And tek photek Andor A	otek Anbote And	K sporet
Anbotek	b) Displays and indicators	uptek anbotek Anbo	P
- phor	c) Accessibility and conventions of controls	untek unbotek Anb	P
. Yar	d) Arrangements of TERMINALS	inde stek abotek A	nbo P

17	Risk assessment		Anbu K
Anborek	Rish assessment conducted, if hazard might arise and not covered by claused 6 to 16	Fully covered by clauses 6 to 16	AnN
Anbo	Tolerable rish achieved by iterative documented process covering the following:	botek Anbotek Anbo	ek N Anbr
te. Ar	a) RISK analysis	Anbore And otek An	poter N P
poter	identify HAZARDS and estimate RISKS	Anboter And otek	nbot ^e N
Anboten	b) RISK evaluation	Anboten Anbo	Nek
Anbotek	plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a rish	ek Anbolek Anborek	Anbotek Anbo
ek An	c) Rish reduction	abotek Anbors Ans	otek N
potek	Initial risk reduced by counter measures:	abotek Anbote An	N
Anbotek	Repeated risk evalution without new risks introduced	Anbotek Anboter	Anbotek
Anbois	Risks remaining after risk assessment addressed in instruction to responsible body:	ek Anbotek Anbotek	Noter
at at	Information contained how to mitigate these rishs	bot potek Anbott	N
potek I	Following principles in methods of risk reduction applied by manufactuer in giver order:	Anborek Anborek Ant	otor N All
nbotek	1) RISKS eliminated or reduced as far as possible	Anbotek Anbote	N
Anbotek	2) Protective measures taken for risks that cannot be eliminated	anbotek Anbotek	Anbotek
k anb	3) User information about residual risk due to any defect of the protective measure	otek Anbotek Anbotek	Nunbor
stek o	Indication of particular training is required	and wotek anbotek And	N
Inbotek	Specification of the need for personal protective equipment	Anbotek Anbotek P	N Anbolec
Anboter	Conformity checked by evaluation of the risk assessment documentation	k Anbolet Anbolek	AnNtek

ANNEX F	ROUTINE TESTS	Anbotek	Anboi	AI. botek	Anbo	- P	mb.
poro pro	Manufacturer's declaration	hotek	Anboro	All notek	AF	boten N	P

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4.4.2	Table: Summary of single fault condtions			stek sabatek P
Subclause	Titel	Not apply	Carried out	Comments
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Mer X	Anbotek	Anboten Anbo
4.4.2.2	Protective impedance	X	Anbore	Am otek an
4.4.2.3	Protective conductor	botek	Xinbo	Ant otek
4.4.2.4	Equipment or parts for short-term or intermittent operation	Xibote	K Ar	poter And
4.4.2.5	Motors	X pot	01-	Arr. hotek - Anboten
4.4.2.6	Capacitors	X	uppole k	Ann hotek Anborr
4.4.2.7	Mains transformers	botek	X	Ant worker Ant
4.4.2.8	Outputs	Anbotek	X	Short-circuit were applied to all outputs. No hazard.
4.4.2.9	Equipment for more than one supply	anb	X	Anbo ek abotek
4.4.2.10	Cooling	X	nbotek	Anbon tek abote
4.4.2.11	Heating devices	Х	Anbotek	Anbor An
4.4.2.12	Insulation between circuits and parts	X	Lo ^{ve}	k Aupon Au

5.1.3 c)	TABLE: MAINS supply					
Anboten	Marked rati	ng (V)	Million	hingelt	Anboten An	to-
Anboth	Number of	phases		Antiootek	Anboten	And
Ant	Frequency	(Hz)	ek pupor	k botek	Antroten	Anos
tek	Current (m/	۹)	ratek "nhbor	All hote	k Anboten	Ant
hotek	Power (W).	Anbu	Note Note Note	Ant Ant	otek - Anbot	9 ₁₀ 1
nº wotek	Power (VA)	Anbu	in and the second	nbote. And	Lotek Ant	potek
Test No	Voltage (V)	Frequency (Hz)	Current (A)	Power in (W)	Power in (VA)	Comments
10°	welt - you	- Aun	- woter	anbo-	- ek	Aporto - Ar

5.3	TABLE: Durability of markings	P
	Marking method (see note)	Agent
1) Adhes	sive label	A Water
2) Ink pr	inted	B Isopropyl alcohol 70%
3) Laser	marked	C (specify agent)
4) Filmco	oated (plastic foil control panel)	D (specify agent)

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Note(s): V	Vhere a		rint method, label m	aterial, ink		cify agent) t type, fixing meth	od, adhesive and
surface to	which	marking is fixed. Marki	ing location	Anbe		Marking method (see above)
Pupo.	- Ide	entification (5.1.2)	one prov		10 ^N	Anbo	botek Anbot
Anb	- Ma	ains supply (5.1.3).	aboles Ano		potek	Anbore	abotek An
lek b	- Fu	ses (5.1.4)	popotes Anto		Anbotek	Anbor	Autotek
ibotek	- Terminals, connections and operating devices (5.1.5)				Anbo	tek Anbo	k Anbotek
Ano	- Sv	vitches and circuit-	preakers (5.1.6)	Anbore	PL	no stek anb	otek Anbo.
Ano	- Do	ouble/reinforced eq	uipment (5.1.7)		er.	And stek	nbotek Anbor
Ann	- Fie	eld-wiring TERMIN	AL boxes (5.1.8)		poter	Anto	anbotek Ant
er p	- W	arning markings (5.	.2)	: 1	Anboten	Anbu	abotek
Meth	od	Test agent	Remains legible Verdict	Label lo Verdi		Curled edges Verdict	Comments
Anboi 1	po.	A, B	And P	Production	pr	P	Hek Ribote

6	Т	TABLE: Protection against electric shock							otek N AN	
potek	BI	ock diagram	of the sys	stem	Anb		-nbotek	Anbo	in bi	
nbotek	Po	Pollution degree: 3								
abotek	0	vervoltage ir	stallation	category	ten	Anber	Ш	botek	Anboro	
Location		Insulation type	Max. working	working Creepage distance (note 3) ce (note voltage		Comments				
descript	on	(note 1)	voltage (note 2)	PWB	СТІ	Other	CTI	- 3) mm	(note 2)	
otek 1	rupor.	- Pri	hotek-	Anboten	AUD	Jek-	nbetek	-Aupor	- P2.	hotek-
BI = BASI DI = DOU PI = PRO RI = Reinf	C IN: BLE TECT orce	e of insulatic SULATION INSULATIO FIVE IMPED d INSULATI ntary INSUL	N DANCE ON	NOTE 2 – Peak impul		oltage (p	ulse) C C C s	ATEGORI ATEGORI EGREES	ES) or PO which diffe hown unde	VOLTAGE LLUTION r from these

6.2	TABLE: Detern	nination of accessible	e parts	Р
	Item	Description	Determination method	Exception under 6.2.1
Anbote	otek1 Anbotek	Examination	The jointed test finger (see figure B.2) is applied in every possible position	K Anbore And

Note(s):

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pre	otek unboter	Ann	otek Anbo	A. atek	Anbore And
6.5.2.4	TABLE: Impedane	ce of protective bondi	ing of plug-conne	ected equipment	t _{ib} o ^{tek} N p
ACCESSIB	LE part under test	Test current (A)	Voltage attaine 1 min (V)		Result
Anbor	Au abotek Ar	poten Ant	Anbotek - A	nbo' Al	botek - Anboten
Note(s):	K spotek	Anboten Anbo	K Anbotek	Anbor Al	abotek Anbote

6.5.2.5	TABLE: Impedance equipment	ce of protective bondi	ng of permanently connected	ed poster N
ACCESSIB	BLE part under test	Voltage attained (s)	Time for voltage to drop below allowable levels(s)	Result
Annotek	-Anboten An	stek - sobotek	Anboit At botek	Anboten Anbo
Note(s):	Anboten	Anbo tek Anbotek	Anbors All hotek	Anboten Anbo
Pur	k hoten	anboy h	ek abort Ant	k hotek anbo

6.7	TABLE:	Insulation	requiremen	ts			po ^{ten} N P
8	Resistance to mechanical stresses				abotek Anbot	Antwotek	Anbot N
10.5.1	Integrity	of CLEARAN	NCES and CR	EEPAGE DI	STANCES	poter Ano	Nek Nek
	Location		initial CRE DISTANC		Initial CLEARANCE (mm)	Maximum working voltage (V)	Comments
ek pa	botek - I	inbu	h. botek	Anbore	Anti-	Anbotek	Anbo Make
Note(s):	Anbotek	Anbor	- botel	r Ano	ote. And ote	ik onbotek	Anbo
	cal tests, e (N)	Static	Dy	vnamic	Drop test, normal	Drop test, hand- held	Comments
h. botek	Anboto	Ann	wotek A	nbotek	Anbo	botek - Anbote	Ann
Note(s):	ok anb	ote. Al	-ek	abotek	Anbore	hotek anb	ofer Anbo

LE: Dielectric strengt	h tests for protection	against the sprea	ad of fire P
Working voltage (V)	Test voltage (V)	Result	Comments
le	DC 500V	otek PAnbotek	Anborek P Anborek
		Working voltage (V) Test voltage (V)	(V) Test voltage (V) Result

6.10.2	TABLE: Cord	l anchora	ge tests	*01		р		ote ^K N
Lo	cation	Mass kg	Pull N	Verdict	Torque Nm	Verdict	Co	omments
Anbotek	- Anbu tek		- pupp	510. A	wotek-	potek Anbu	Nor	- abotek
Note(s): No	cord provided	m.	ok p	nbote	Ann	Anbotek Anb	. A	hotel

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8 TAB	LE: Resistance	e to mechanic	al stresses			P ^K
Llocation	Static	Dynamic	Drop test, normal	Drop test, hand-held	Result	Comments
Enclosure	obotek-	Pass	hotek-	Ipote An	Pass	abotek - Anbo
Note(s): 1). 30N a 2). 50mn	applied by the he n diameter steel ped once through	emispherical er sphere with a i	mass of 500g ir	mpact from posi	eter tion of 1m hei	

more than 70	JU kg/m ³ .	
000	N. N.	

9		Pubotel		
ltem	Source of hazard or area of the equipment considered (circuit, component, liquid etc.)	Protection method (9a, 9b, 9c)	Protection details	Comments
Plastic parts	olek Anbore Anto Sotek Anboren	9a	nborek	Anboro P
Note(s):	abotek Anbotek Anbotek Anbotek	Anbu	nbotek	Anboro

9.3.1	TABLE: Containment of fire within the equipmer	nt	Noon
14.7 M ⁰⁰¹	Printed wiring boards	hbotek Anbor Ar abotak	N pot
Anbo	Material tested:	unbotek Anbor Al	
otek A	Generic name:	Anbotek Anbor Ar	
nbotek	Material manufacturer:	Anbotek Anbore	
nbotek	Type designation:	ek nbotek Anbois	
abotek	Colour:	stek nbotek Anbore	
- nbo	Conditioning details::	pot hek abotek Anbore	
tek Ar	Thickness (mm):	1 - 2 - 3 -	
Anbotek Anbotek	Duration of flaming after first application (s):	1 – 2 – 3 -	
ek And	Duration of flaming plus glowing after second application (s):	1 2	
Anbotek Anbotek	Specimen burns to holding clamp (Yes/No):	1 - 2 - 3 -	
k Anborr	Cotton ignited (Yes/No):	1 2 3 -	

Note(s):

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9.4	TABLE: Limited-energy circuit							
Anboro	Test details: 1 –Lo current (A); 4 – ma circuit separation; 6	aximum power	r(VA); 4 – overload	protection a		Anboten Anbo		
1	2	3	4	5	6	7		
ter - Ant	- weter	anbor-	Pri.	abeter	pino -	Lotek-		
Note(s):	Anboren Anu	ek anbote	ak Anbo, rek	p	Anboter	Anu		

9.5	TABLE: F	Requirements for e	equipment containing or using flan	nmable liquids	A ^m N stel
Test details: 1 –Type of liquid; 2 liquids (containment); 4 – comr			l; 2 –flammable liquids (b. quantity); mments	3 – flammable	ek Anb
1		2	3		4
dek	Anbore	Am-rek al	poten Anbr k - votek	Aupore Ar	- vek

10	TABLE: 1	Femperature	measurements				Р		
10.1	Surface to	Surface temperature limits – NORMAL CONDITION and / or SIGNLE FAULT CONDITION							
10.2	Temperat	ture of winding	gs- NORMAL CONDIT	TION and / or SIGNL	E FAULT CONDIT	ION pot	oter N A		
10.3	Other terr	nperature mea	asurements	anbotek Anbo	ok po	10H	nbote P		
Operating	conditions:	Normal work	ing have stell	Anbotek Ar	por An	hotek			
Anboio	Frequenc	y (Hz)	Anbo		Anboro Ar	hotek			
Anbore	Duration ((h, min)	Joten Anbo		hour 50	min			
k Aup	Voltage (V)								
otek p	Ambient temperature Ta (°C): 28°C								
	maximum		t/location; 2 – meas Tm + 40°C – Ta (°0 ments				Anbotek		
1	1	2	3	4	5		6		
PCB prof	ter Ari	obotek-	60.2	100	Anboten	And	hek- Ant		
Terminal	hbu botek	Anbotek	58.2	120 Martin	Anbo P bott	sk pi	ibotek v		
Enclosure	Anbotek	Apporer	49.3	120	botek P Ant	potek	Anboten		
Transform	er Anbot	Anbu ho	67.1	110	anbotek P	Anboren	Anb		

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10.2	TABLE: Ter	nperature of res	istance met	hod temper	ature measur	ements	ibote ^K N P
4.4.2.7	MAINS Trans	formers	upor P		Anboten	Anberrek	Nod
14.2.1	Motor tempe	eratures	Anboro	Ann Lotek	Anbotek	Anbo	Ntek
Operating of	conditions:	K abotek	Anbore	Ann	ek Anborek	Aupo	
Anbote	Frequency (Hz)	huppote	An	otek anbo	tek Aupo.	
stek ant	Duration (h,	min)	e ^k po ^{bc}	······································	hour	boten min.nt	
hotek	Voltage (V)		watek	1 :	N hotek	Anbotek	24
nu votek	Ambient tem	perature Ta₁ /Ta	2(°C)	pobote	Anthotek	°C(initial/final)	
Anbotek		nts: 1 – part/desig 7 – result; 8 – co		$R_{cold} \Omega; 3 - F$	$R_{warm} \Omega; 4 - Tr ($	K); 5 – T _c (°C);	K Anborek
1	2	3	4	5	6	7	8
iek - Anb	- Pris	otek - antot	er Anto	-ok	botek An	P010 P11	wotek-
(Tc= Tr - { Note(s): 2 -	Ta2 – Ta1} + - Indicate insu - Record value	al resistance; Rw [40 °C or max ra Ilation class (IEC es for normal cor	ted ambient] 85) under ce); Tmax = m omments (o	naximum permi ptional)	tted temperatu	Irenbotek

10.5.2	TABLE: Resistance to	heat of non-metallic encl	osures	otek P		
otek p	Test method used:	Anboten Anb	See below			
abotek	Non operative treatmen	t	. [√] Anbotek	Rek		
anbotek	Empty ENCLOSURE	Anbolen Anbo		Phil		
nabotek	Operative treatment	nak kuboten Anbo	. [tel mbotek Anbote	A Arr		
	Part	Test temperature (°C)	Duration (h, min)	Verdic		
rek	Enclosure	125	Anbor th th botek Anb	P		
o, b,	Dielectric strength test (6.8) 500 V r.m.s./peak/d.c					
Note(s): No	hazardous live parts shall	be accessible	Anborrek Anborek	Anboten		
10.5.3	3 TABLE: Insulating materials					
10.5.3a)	Ball pressure test	rek abotek An	pore And wotek Anbotel	Punt		
Ann	Max. allowed impression	n diameter	2 mm	tek		
	Part	Test temperature (°C)	Impression Diameter (mm)	Verdic		
poter	Terminal	125	Anboten 1.1 And otek	nbo'PK		
Anboten	PCB	125	Anbote 1.1 And stek	Bote		
Anboten	Enclosure	125	pret prof 1.2 And pret	P		
Note(s): No	hazardous live parts shall	be accessible	anbotek Anboten Anbo	10× 0		
10.5.3	TABLE: Insulating mater	ials		notek N		
10.5.3b)	Vicat softening test (ISC	0 306)	Anbotek Anbote Al	N		
	Part	Vicat temperature (°C)	Thickness of sample (mm)	Verdic		

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poter	And	Anbotek	Aupor	All botek	Anboten	And	habotek - P
Note(s):							Anbotek

11	TABLE: P	rotection ag	gainst hazard	s from fluids	;			N.nbon
rek a		Measurements: 1 – location; 2 – cleaning; 3 – spillage; 4 – overflow; 5 – equipment plus liquid; 6 – working voltage (V); 7 – test voltage (V); 8 – result; 9 – comments						
1	2	3	4	5	6	7	8	9
u and	abetek	Aupo.	ptek	- anbote.	Pur		potek	Anbo

Note(s): No such fluid used.

11.7.2	TABLE: Leaka	ge and rupture at	high pressure			e ^k N An ^b
Part	Maximum permissible working pressure (Mpa)	Test pressure (Mpa)	Leakage test Yes / No	Burst test Yes / No	Com	ments
Anu	anbotek	Anbo	abotek Ar	poter Ann	otek - anbo	ek -Aupo.
Note(s):	tek unbotek	Anbo	An	Anboten Ar	in stek as	botek Anbo
11.7.3	TABLE: Leaka	ge from low-pres	sure parts			otek N A
oter pr	Measurements:	1 - ; 2 – (Pa); 3 –;	4 - hotek	Anboten	And	nbotek
	Part	Test press	ure Leak	(Yes/No)	Com	ments
Amboren	Part	Test press	ure Leak	kage (Yes/No)	Com	ments

12.2.1	TABLE: Ioniz	ing radiation					N	
Location Measur			ed values µSv/h Verdic		Verdict	ct Con		omments
no atek - abotek Anbo		Anbo.	k hotek Anbore _ An		otek opbotek		- Anbo	
Note(s):	Anbotek	Aupor	with the	tek Anbor	27 	Anoratel	- anbot	sk Aupon
12.5.1	TABLE: Sour	nd level m	neasurements	5				Nanbo
Location			Measured values dBA			Calculated maximum sour pressure level		
botek	Anboten An	o tek	Anbotek	Pupor of	pr.	optek	Anboten	Anno otek
Note(s):	Anboten	Anbo	nbotek	Anbor	k bri,	botek	Anboten	And
12.5.2	TABLE: Ultra	sonic pre	essure measu	irements				N
Lo	Location			Measured values			Comments	
		(dB	kHz				
NO AN	hotek Ant	oter	And	a abotek	Pupor	er by	hotek	Anboten
Note(s):	Annetek	nbotek	Anbo	hotek	Anb	010	Am	Anbotek

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com



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13.2.2	TABLE: Batteries tests					
Anbotek	Battery load and charging circuit diagram:					
Anbotek	Battery type	outek popole Ano	Nete	Anbotek Anbo		
Anbo	Battery manufacturer	pobote" An	- otek	Anbotek Anbo.		
rek Nr	Battery model	en poloten :	inu-	Anbotek Anbo		
otek	Battery catalogue No.		Ano	tek nabotek Al		
nbo	Battery ratings	All hotel hoter.	Aup	stek subotek		
Anbo	Reverse polarity insta	Iment test	P.	nbo otek nbotek	P.N.	
Single	e component failures		Ver	dict		
	Component	Open circuit, result		Short circuit, re	sult	
lek An	sek abotek	Anbore And hotek	Anboten	Anbu tek	potek A	
Note(s):	Anbour An notek	Anbore And stek	s abo	tek Anbour An	hotek	

and-	· · · ·	Your Your	Aut	oter and	~b01
14.1	TABL	E: Components			Puotek
Object/p	art No.	Manufac- turer/trademark	Type/model	Technical data	Mark(s) of conformity
en An	u- tek	nbotek	Arbon Ar hotek	Anboten Ano otek	botek Ar
poter	Aupo	- nbotek	Anbols Anote	Anboten Anborek	abotek
Anboten	Pupor	tek abotek	Anbola An	tek Anbotek Anbo	abotek
Noto(a): 1		rick indicator a my	ark which accurac the ac	rood lovel of surveillance	Hereit

Note(s): 1) an asterisk indicates a mark which assures the agreed level of surveillance

14.3 TABLE: Overtemperature protection devices

Reliability test:

Component		Type(see note)		Verdict		Comments	
And sotek	- anbotek	Anbo, Jok	phi abotek	Anbore	Any wotek	Anbotek -	Anbo, vek
Note(s):	obotek	Aupo, K	A. Lotek	Anbore	Ann	abotek	Aupo

NSR = non-self-resetting (10 times)

NR = non-resetting (1 time)

SR = self-resetting (200 times)

14.6	.6 TABLE: Mains transformers tested outside equipment					
Anbo	Туре					
Anno	Manufacturer					
hek I	Temperature protection class of the lowest RATED winding (class or maximum RATED temperature) :					
potek	Winding identification					

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oten Ar	Type of protector for winding:	Anboten Anto-			
		Short circuit	Over load		
Anbore	Elapsed time:	s 1s	Lotek 1s Anbotek		
Anbore	Current, primary (A):	otek Riboter	Ant Lotek Anbote		
Anbor	Current, secondary (A):	abotek Anboten	And anb		
tek Ant	Winding temperature, primary (°C):	abotek Anbote	Ant		
botek	Winding temperature, secondary (°C):	Anbotek Anbot	Anno		
botek	Tissue paper/cheesecloth test:	k borsk An	poter And otek		
Annotek	Voltage test:	pri-	Anboten Anbo		
Note(s): No	any transformer used.	he hotek	Anboten Anbo		

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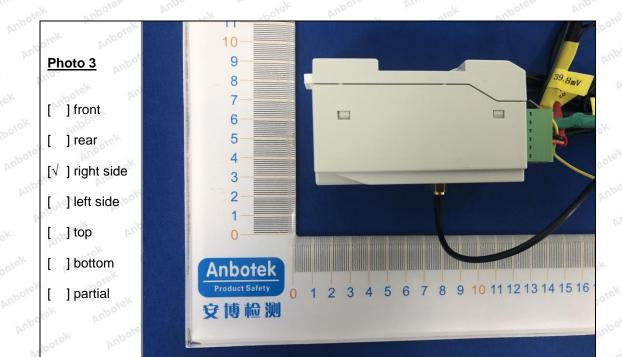
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