

APPLICATION FOR LOW VOLTAGE DIRECTIVE

On Behalf of

Acrel Co., Ltd.

Solar PV String Monitor

Model: AGF-M24T/KV-P3, AGF-M20T/KV-P3;AGF-M12T/KV-P3;AGF-M8T/KV-P3;AGF-M4T/KV-P3;AGF-M24T.

Prepared For Acrel Co., Ltd.

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

Anbotek (Guangzhou) Compliance Laboratory Prepared By

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Mar. 03, 2020 to Mar. 10, 2020 **Date of Test:**

Date of Report: Mar. 11, 2020

58250SC00004201 **Report Number:**



Anbotek (Guangzhou) Compliance Laboratory Limited Page 2 of 52 Report No. 58250SC00004201

TEST REPORT

EN 61010-1

Safety requirements for electrical equipment for measurement, control, and laboratory use **General requirements**

Part 1:

erry Tian

Report reference No. 58250SC00004201 Compliance Laboratory

Compiled by: Jonny Wu

Approved by Terry Tian

Date of issue: Mar. 11, 2020

Contents: 52 pages Report

Testing laboratory..... Anbotek (Guangzhou) Compliance Laboratory Limited

Address Rm.508, Bld.2, No.232, Kezhu Road, Science City, Economic &

Technology Development Area, Guangzhou, Guangdong, China.

510663

Testing location: Same as above

Applicant Acrel Co., Ltd.

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

Test specification

Standard.....: EN 61010-1:2010+A1:2019

Test procedure: LVD test report

Type of test object

.....: Solar PV String Monitor Description

Trademark.....

......: AGF-M24T/KV-P3, AGF-M20T/KV-P3, AGF-M12T/KV-P3, AGF-Model/type reference

M8T/KV-P3, AGF-M4T/KV-P3, AGF-M24T

jiangsu Acrel Electrical Manufacturing Co., Ltd. Manufacturer

No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu

Province, China

Factory.....: Same as manufacturer Same as manufacturer

Rating



Anbotek (Guangzhou) Compliance Laboratory Limited Page 3 of 52 Report No. 58250SC00004201

Test item particulars

Pollution degree..... I

Operating conditions...... Continuous operation

Connection to supply mains None

Special protection to IEC 60529 IPX0

Possible test case verdicts

- 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

Date of receipt of test item Mar. 03, 2020

General remarks

"(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.

This report shall not be reproduced except in full without the written approval of the testing laboratory.

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

Copy of marking plate

Solar PV String Monitor

Model No: AGF-M24T/KV-P3

Rating: DC1500V,20A



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

Jiangsu Province, China

Importer: XXX Address: XXX



4.4.2.14

4.4.3

4.4.4

Anbotek (Guangzhou) Compliance Laboratory Limited

Ρ

protection	EN 61010-1	f 52 Report No. 58250SC	Vupo.
Clause	Requirement – Test	Result - Remark	Verdict
-W	Potek Willous Win Park Spotek	Anbox Aller	abolek
4.4	TESTING IN SINGLE FAULT CONDITION		, boPF
4.4.1	Fault tests	Anborak Anbo	Potek
4.4.2	Application of fault conditions	tek anbotek Anbot	P
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	nbotek Anbotek Anbote	lek Nam
4.4.2.2	Protective impedance	Anborek Anbo	N ^{Astod}
4.4.2.3	Protective conductor	Aupotek Aupon A	N
4.4.2.4	Equipment or parts for short-term or intermittent operation	Anbotek Anbotek	Anbotek Anbotek
4.4.2.5	Motors	tek Aupo, rek Polek	Napor
4.4.2.6	Capacitors	abotek Anbote An	ek P an
4.4.2.7	Mains transformers	Anbotak Anbota. Anb	P Vote
4.4.2.7.2	Short circuit	abotek Anboten Ar	N
4.4.2.7.3	Overload	potek Anbotes	And Nek
4.4.2.8	Outputs	ok hotek Anbotek	And P
4.4.2.9	Equipment for more than one supply	K hotek Anbotek	Nupa
1.4.2.10	Cooling	loole Am alek Anbol	N Aug
4.4.2.11	Heating devices	Anbores And Stek An	ootek N
4.4.2.12	Insulation between circuits and parts	Anbores Anbo	nbol P
4.4.2.13	Interlocks	Anbotak Anbo	N
10	100	- AN 140°C	947

5 sek	Marking and documentation	Anbo hotek	Anbore P
5.1.1	General	Anbor An hotek	Ant Profe
VUDO	Required equipment markings are:	3k Vupor Vu votek	Anbotek
Anbo	Visible:	botek Anbore And	k P Anbo
k Anb	From the exterior; or	abotek Anbote And	otek P
otek	After removing a cover; or	hotek Anbotek An	N
abotek	Opening a door	An hotek Anbotek	Anbe N
- botek	After removal from a rack or panel	k notek anbotek	Pupp N
Anborel	Not put on parts which can be removed by an operator	otek Ambotek Ambotek	N ^{boot}
Aup,	Letter symbols (IEC 60027) used	hotek Anbotek Anbo	P
Nok D	Graphic symbols (IEC 61010-1: Table 1) used	And anbotek Anh	Р

Anbotek (Guangzhou) Compliance Laboratory Limited

Voltage selectors

Duration of tests

Conformity after application of fault conditions



Anbotek (Guangzhou) Compliance Laboratory Limited Page 5 of 52 Report No. 58250SC00004201

Clause	Requirement – Test	Result - Remark	Verdict
, Pu	Totak Albotak Arbot Alt.	Anbotek Anbo kek	abotek
5.1.2	Identification	Aupolek Aupo,	"POINT
Aupoles	Equipment is identified by:	k Anbotek Anbot	Potek
Anborek	a) Manufacturer's or supplier's name or trademark	tek anbotek Anbote	Р
anbote	b) Model number, name or other means	tek nbotek Anbot	Р
in and	Manufacturing location identified	and tek abotek An	P N
5.1.3	Mains supply	Anbo A botek	Anbore
401	Equipment is marked as follows:	Anbo, ak hotek	Anboren
'upo	a) Nature of supply:	Anbor An hotek	Antotok
Anbote Anbote	a.c. rated mains frequency or range of frequencies	tek Anbore Andat	ek P _{Anbo}
·	2) d.c. mark with symbol 1 of Table 1	Anbo. A. botek An	P N
Nok	b) Rated supply voltage(s) or range	Anbor Ar hotek	Alboren P
, ak	c) Max. rated power (W or VA) or input current	Anbore K Ans	Anbolek
upotek.	The marked value not less than 90 % of the maximum value	Anbotek Anbotek	AngNiek
nbote	If more than one voltage range:	ok hotek Anbote	N
- 2/0	Separate values marked; or	aboth Am	of St. N M
Pr.	Values differ by less than 20%	Anbore Ant ofek	N October
	d) Operator-set for different rated supply voltages:	Anbores And And	anbotek
nboro	Indicates the equipment set voltage	Anboten Anbo	Nek
	Portable equipment indication is visible from the exterior	lek Anbotek Anbote	N Anbot
br.	Changing the setting changes the indication	rboise. And	otak N M
Jek bur	e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked:	Anbotek Anbotek	Anbotek
hotek	With the voltage if it is different from the mains supply voltage	Anbotek Anbotek	Anbor N
Vupo	For use only with specific equipment	tek Anboten Anbo	N _{ook}
Anboro	If not marked for specific equipment it is marked with:	Dotek Anbotek Anbo	otek Ani
e/r	The maximum rated current or power; or	Anbore And And	nyotek N
P. P.	Symbol 14 with full details in the documentation	Anbores Anb	nboteN
5.1.4	Fuses	Vupoter Vupo.	Rek
Anbores	Operator replaceable fuse marking (see also 5.4.5):	ek Anbotek Anbetel	N
5.1.5	Terminals, connections and operating devices	View Mina, W.	te Pani



Anbotek (Guangzhou) Compliance Laboratory Limited Page 6 of 52 Report No. 58250SC00004201

Clause	Requirement – Test	Result - Remark	Verdict
P//	notek Anbotek Anbo A. Abotek	Antories Anto	nbotek
unbotek	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked	Anbotek Anbotek	Anbo Pk
Aupolo	Insufficient space, symbol 14 used	piek Anbores Anbo	N
Anbore	Push-buttons and actuators of emergency stop devices and indicators:	Inbotek Anbotek Anb	N P
- ak	used only to indicate a warning of danger or	Anbore And	ipotek N
, v	the need for urgent action	Anbores Anb	Noo'N
upoter	coloured red	Aupoles Aupo	Notes
Anbole	coded as specified in IEC 60073	stek Anbotek Anbo	N
Anbore	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):	Anbotek Anbotek Anbot	N N
P.L.	to safety of persons; or	Anbore. And	botek N
, p	safety of the environment	Anboren Anbo	N toot
upole	Indication of emergency stop devices	Anbotek Anbo	Nesk
.1.5.2	Terminals	lek Anbotek Anbo	mc
Anbote	Mains supply terminals identified	stek anbotek Anbote	N
anb	Other terminal marking:	to tek abolek Anbo	b
lok .	a) Functional earth terminals (symbol 5 used)	Anbo lek abotek A	N N
-tek	b) Protective conductor terminals:	Anbor Ar Hotek	Anbore
'pa.	Symbol 6 is placed close to or on the terminal;	Aupor Au Potek	Ani Preh
Aupo.	Part of appliance inlet	lek Aupole Aug Olek	Nabo
Vupo,	c) Terminals of control circuits(symbol 7 used)	botek Anbote And	N N
ek Anbe	d) Hazardous live terminals supplied from the interior	Anbotek Anbotek Anb	potek -
40.	Standard mains socket outlet; or	Anbors Am	Anbot N
100°	Ratings marked; or	Anbore And Otek	ant Neek
Aupo,	Symbol 14 used	tek Anbore Ann otek	N
.1.6	Switches and circuit-breakers	botek Anboten Anbo	N
Anbo	If disconnecting device, off- position marked	Lotek Anbotek Anbo	N
ek A	If push-button used as power supply switch:	An Anbotek An	N
notek	Symbol 9 and 15 used for on-position	Ans otek anbotek	Mupo, N
notek	Symbol 10 and 16 used for off-position	And tek anbotek	Maria N
Ann Mek	Pair of symbols 9, 15 and 10, 16 close together	Why William Was Worldk	Noo
5.1.7 Ambo	Equipment protected by double insulation or reinforced insulation	potek Anbotek Anbot	N N
V.	Protected throughout (symbol 11 used)	Vupo.	N



Anbotek (Guangzhou) Compliance Laboratory Limited Page 7 of 52 Report No. 58250SC00004201

400	Total Antions And	work hupo, by	64
Clause	Requirement – Test	Result - Remark	Verdict
1000	Andrew Andrew	And tek apotek an	pote
	Only partially protected (symbol 11 not used)	Anbo, A. botek	popo Ne
5.1.8	Field-wiring terminal boxes	No such parts	Anbotek
Anbors	If terminal or enclosure exceeds 60°C:	Hek Anbore, And	N
Anbore	Cable temperature rating marked	notek Anbotek Anbo	N
k Anbe	Marking visible before and during connection or beside terminal	Anbotek Anbotek Anbo	N A
5.2	Warning markings	aupotek Aupo, wak	No lock
Anbotek	Visible when ready for normal use	W Anboyek Anboy	Prek
anbotek	Are near or on applicable parts	tek abotek Anbote	P
nbotek	Symbols and text correct dimensions and colour:	ok sotek Anbore	P
yk Aupo	a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background	Anbotek Anbotek Anbo	P M
otek V.	b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and	Aupotek Aupotek A	Anbot P.
Anbotek	0.5 mm depth or raised if not contrasting in colour	ek Anbotek Anbotek	An Pries
anbotek	If necessary marked with symbol 14	tek abotek Anbote	P
otek Anbo	Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted	Anbotek Anbotek Anbo	P ATT
5.3	Durability of markings	Aupo, Wek apolek	Aupolen P
Anbotek	The required markings remain clear and legible in normal use	(see appended table)	An Phone
5.4	Documentation	stek abotek Anbote	- Pan
5.4.1	General	Tabotak Anbota	Р
olek bi	Equipment is accompanied by documentation for safety purposes for operator or responsible body	Antorek Anbotek Anb	P
'upotek	Safety documentation for service personnel authorized by the manufacturer	Aupotek Aupotek	Anblok
Anborek	Documentation necessary for safe operation is provided in printed media or	otek Anbotek Anbotek	P _{ipot}
Anbor	in electronic media if available at any time	otek Anbotek Anbote	P PARTY
yok an	Documentation includes:	Andrew Antre	/ <u>-</u>
olek .	a) Intended use	Aupo, Air.	nbotek P
100	b) Technical specification	Pupose Vur	AUD BLOK
bupo,	c) Name and address of manufacturer or supplier	White Anbotes And Stek	Room
Aupolo	d) Information specified in 5.4.2 to 5.4.6	Potek Aupotek Mupo	P
Anbol	e) Information about how to mitigate risks remaining	upotek Aupotek Aupot	rek P



Anbotek (Guangzhou) Compliance Laboratory Limited Page 8 of 52 Report No. 58250SC00004201

Alle	k intok anbore Am	Page Proposition	-6Y-
Clause	Requirement – Test	Result - Remark	Verdict
Yor.	motely Wupo, W. Marek Wupoles	And tek therek	abore
potek	f) accessories for safe operation of the equipment specified	Anbor Anborek	Anbo P.
	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	otek Anbotek Anbotek	A/P° Anb
Anb	h) Instructions for lifting and carrying (see 7.5)	abotek Anboten Anbi	osek N
lok b	Warning statements and a clear explanation of warning symbols:	Anbotok Anbotok A	Anbotek
upo,	Provided in the documentation; or	Anboth And Sofek	No to
Vupo,	Information is marked on the equipment	otek Anbores Ans	Nabo
.4.2	Equipment ratings	potek Anbores Anso	ek
Pupe	Documentation includes:	hotek Anbotes Anb	10K
lek b	a) Supply voltage or voltage range	DC1500V	P
polek	Frequency or frequency range	Are Lotek Anbotek	Anbo N
botek	Power or current rating	And stek anbotek	PU.D.
Anbotek	b) Description of all input and output connections in accordance to 6.6.1 a)	hotek Ambotek Ambotek	Pupe Bupe
Anbo	c) Rating of insulation of external circuits as required by 6.6.1b)	Anbotek Anbotek Ano	potek N
lpotek p	d) Statement of the range of environmental conditions	Ambient temperature: 5°C~40°C	Anbot P
anbotek	e) Degree of ingress protection (IP, IEC 60529)	IPX0	P
anbotek	f) Impact rating less than 5 J	ok botek Anbores	P
000	IK code in accordance to IEC 62262 marked or	rbote Antolek Antol	N N
alt.	symbol 14 of table 1 marked, with	Anbor k notek an	o ^{ren} P
-Vo-	RATED energy level and test method stated	Anboro Ano	Anbot N
4.3	Equipment installation	Anbore And And	anbarek
Vupo,	Documentation includes instructions for:	tek Aupoles, Vupp.	- nbo
Anbore	a) Assembly, location and mounting requirements	potek Anboten Anbo	Р
Anbo,	b) Protective earthing	hotek Anbotek Anbo	N N
1/4	c) Connections to supply	An Anbotek An	P
otek	d) Permanently connected equipment:	And otek Anbotek	Vupo, -
hotek	Supply wiring requirements	And tek abotek	VUQ V
Aupotek	If external switch or circuit-breaker, requirements and location recommendation	otek Anbotek Anbotek	Noo
Anbot	e) ventilation requirements	stek Anbotek Anbote	N
/k	f) special services (e. g. air, cooling liquid)	Anbo work anh	N



Anbotek (Guangzhou) Compliance Laboratory Limited Page 9 of 52 Report No. 58250SC00004201

Aupo.	EN 61010-1	notek Anbore Ans	
Clause	Requirement – Test	Result - Remark	Verdict
You	potek Aupo, W. Stek Pupotek	Anbo Matek	pole.
10,	g) Instructions relating to sound level	Anbores And	N ^c
5.4.4	Equipment operation	Anbotek Anbo	w. polek
Vupotor	Instructions for use include:	tek anbotek Anbo.	br
Anbott	a) identification and description of operating controls	(see user manual)	ek P
	b) Positioning for disconnection	hotek Anboten Anb	N
otek	c) Instructions for interconnection	And otek anbotek A	P
work.	d) Specification of intermittent operation limits	(see user manual)	Aupole A
ino cotek	e) Explanations of symbols used	Vupo, rek vipolek	Pubo _{ler}
Bunga	f) Replacement of consumable materials	ley Vupo, Py Polek	N _{upo}
Anbo	g) Cleaning and decontamination	botek Aupon And	ek N M
otek Aug	h) Listing of anypoisonous or injurious gases and quantities	Anbotek Anbotek A	potel N
inbotek	i) RISK reduction procedures relating to flammable liquids (see 9.5)	Ambotek Ambotek	Anbolek bolek
Aupote,	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1	lak Anbotek Anbotek	N Ambol
anb anb	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids	botek Anbotek Anbo	N N
otek.	A statement about protection impairment if used in a manner not specified by the manufacturer	Anbotek Anbotek An	otor N
5.4.5	Equipment maintenance and service	An Anboten	Anbo
hotek	Instructions for responsible body include:	And stek ambotek	Aupolo
Ann	Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety:	en Anbotek Anbotek	Ribot
Anb	Instruction against the use of detachable MAINS supply cord with inadequate rating	bos Anbotek Anbot	P An
10h	Specific battery type of user replaceable batteries	And tek supotek An	P
Yor	Any manufacturer specified parts	Anb.	Anbor P
	Rating and characteristics of fuses	Anbo. A. hotek	Ant Press
Anbon	Instructions include following subjects permitting safe servicing and continued safety:	ok Anbota Anbotak	Pupot
	a) product specificRISKSmay affect service personnel	hotek Ambotek Anbote	F P An'
lok b	b) protective measures for theseRISKS	Ant Anbotek Ant	Р
notek	c) verification of the safe state after repair	And stek subotek	inpola P
5.4.6	Integration into systems or effects resulting from special conditions	k Anbotek Anbotek	An'oN
"polek	Aspects described in documentation	K notek superen	N

6 Protection against electric shock	P
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Anbotek (Guangzhou) Compliance Laboratory Limited Page 10 of 52 Report No. 58250SC00004201

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Yor	hotek anboy Art anbotek	Vibo. To Motok	apote.
6.1	General	Anbore And	Notoday.
6.1.1	Requirements	Anbotek Anbo	-botek
Anbotek	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION	Comply with requirement	P
ik anbr	ACCESSIBLE parts not HAZARDOUS LIVE	netek anbotek Anbo	Р
otek A	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:	Anbotek Anbotek A	Anbotek Anbotek
boick	ACCESSIBLE parts and earth	K Lotek anbotek	N
Anbotek	Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m	botek Anbotek Anbotek	P. nbo
otek Pupe	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11	Anbotek Anbotek An	botek P
6.1.2	Exceptions	Aupo, bolok	Anbore
Anbotek	Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:	ek Anbotek Anbotek	Ar N tek
Anboten	a) parts of lamps and lamp sockets after lamp removal	botek Anbotek Anbot	ek N
otek An	b) parts to be replaced by operator only by the use of tool and warning marking	Anbotek Anbotek An	potek N
unbotek .k	Those parts not hazardous live 10 s after interruption of supply	Anbotek Anbotek	Anbor N
Anborek	Capacitance test if charge is received from internal capacitor	ek Anbotek Anbotek	Namboh
6.2	Determination of accessible parts	pore. And sek subor	ak Ani
6.2.1	General	Anboren Anbo	orek
hotek Ar	Unless obviously determination of accessible parts as specified in 6.2.2 to 6.2.4	Anbotek Anbotek	Anbore P
6.2.2	Examination	And stek anbotek	Anho.
Nu.	- with jointed test finger (as specified B.2)	Aupo, tek "potek	B _{/oot}
Anbot	- with rigid test finger (as specified B.1) anda force of 10 N	botek Anbotek Anbote	P Ant
6.2.3	Openings above parts that are hazardous live	No openings	N
bolek	- test pin with length of 100 mm and 4 mm in diameter applied	Anbotek Anbotek	Anbotek
6.2.4	Openings for pre-set controls	k Anbotek Anbo	N
Aupoley	- test pin with length of 100 mm and 3mm in diameter applied	otek Anbotek Anbote	K N
6.3	Limit values for accessible parts	abotek Anbor An	



Anbotek (Guangzhou) Compliance Laboratory Limited Page 11 of 52 Report No. 58250SC00004201

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
orok .	Protek Wupo, W. Potek Wupoten	Anbo sek abotek	opole.
6.3.1	Levels in normal condition	Aupor An.	Pupo Pir
Anbore	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	Anborek
	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 _m bo
k Anbr	Voltages are not HAZARDOUS LIVE the levels of:	atek Anbotek Anbo	- 10
otek A	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	Measure: 0.16mA r.m.s.	Anbotek Anbotek
Anbo.	for wet locations measuring circuit A.4 used	tek Anbole And	Nabo
Aupore	c) Levels of capacitive charge or energy less:	botek Anbores Anbo	N N
k Aupo	1) 45 μC for voltages up to 15 kV peak or d.c. or line A of Figure 3	Anbotek Anbotek Anb	botek N
inbotek k	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	Anbotek Anbotek	Anbo'N
5.3.2	Levels in single fault condition	ok hotek Anbote	A ^m P
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	ek Pupa
tek Anbo	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	Anbotek Anbotek An	potek N
*ek	Voltages are notHAZARDOUS LIVEthe levels of:	Anbore Am hotek	Aupoten
Anbotek 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	Measure: 0.16mA r.m.s.	Ant Preh
anbo	for wet locations measuring circuit A.4 used	stek supotek Anbo	N
tek Pl	c) Levels of capacitive charge or energy less:	Anto tek abotek An	N
nbotek	1) 45 μC for voltages up to 15 kV peak or d.c. or line A of Figure 3	Anbotek Anbotek	Anboron N hotek
Anborek	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	ek Anbotek Anbotek	N
6.4	Primary means of protection	poter Anto	P Ant
5.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:	Anbotek Anbotek Ant	otek P
po, apotek	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)	k hotek Anbotek	Pup Bek
-botek	b) BASIC INSULATION(see 6.4.3)	k anbotek	Phon
Pus.	c) Impedance (see 6.4.4)	Joseph Pupp	N Marit
5.4.2	Enclosures and protective barriers	rupoter Auro, VIII	olek P



Anbotek (Guangzhou) Compliance Laboratory Limited Page 12 of 52 Report No. 58250SC00004201

Anbotal	EN 61010-1	eek abotek Anbore	VU
Clause	Requirement – Test	Result - Remark	Verdict
A Voron		And atek anbotek	aboro Mik
- 10t-	- meet rigidity requirements of 8.1	Vupo, W. Posek	Pupo Ne
Pupo, Potek	- meet requirements for BASICINSULATION, if protection is provided by insulation	Anbore Anborek	Anbotek
	- meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access	abotek Ambotek Ambotek Ambo	N _n bo
6.4.3	Basic insulation	botek Anbote A	Br
Anbotek Anbotek	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	Anbotek Anbotek	Anbotek Anbotek
6.4.4	Impedance	tek Anboie Ano	Nabo
Anbois.	Impedance used as primary means of protection meets all of following requirements:	lpotek Vuposey Vupo	ek N
181	a) limits current or voltage to level of 6.3.2	Anbo. An wolek An	bose N
Anbotek	b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate	Anbotek Anbotek	Anbo'N
Anbotek Anbotek	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7	ek Anbotek Anbotek	Anboi Anboi
6.5 _{Milb} o	Additional means of protection in case of single fault condition	Anbotek Anbotek Anbo	potek V
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:	Anbotek Anbotek	Anbotek anbotek
Aupole	a) PROTECTIVEBONDING(see 6.5.2)	ek Anboten Anbo	Palot
Anborek	b) SUPPLEMENTARYINSULATION (see 6.5.3)	otek Anbotek Anbote	P ,
Anboi	c) automatic disconnection of the supply (see 6.5.5)	Ambotek Ambotek Ambo	n N
010. PL	d) current-or voltage-limiting device (see 6.5.6)	Anbotes Anbo	Ň ^{Prodo}
, nbotek	Alternatively one of the single means of protection is used:	Anbotek Anbotek	Anb Nok
Wolek.	e) REINFORCED INSULATION(see 6.5.3)	Anto tek abotek	Niposi
PULL OF	f) PROTECTIVE IMPEDANCE (see 6.5.4)	Poter Vulco, Vil	N Anh
6.5.2	Protective bonding	Anbotek Anbot An	01ek
6.5.2.1	ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION:	Anbotek Anbotek	Anbotek Anbotek
Anborek	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or	k Aupotek Aupotek	Anbore
Anbot	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL	hotek Anbotek Anbote	N Anh



Anbotek (Guangzhou) Compliance Laboratory Limited Page 13 of 52 Report No. 58250SC00004201

01	K Polek VIDO, W.	Don't have	184
Clause	Requirement – Test	Result - Remark	Verdict
6.5.2.2	Integrity of protective bonding	Anbotek Anbotek	000.
Anbotek Anbotek	a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses	tek Anbotek Anbotek	Notek Anbolek
k "jo	b) Soldered connections:	upote Aug Motek Aupt	N
-ok	Independently secured against loosening	Aupolo Au	ipotek N
0, 0	Not used for other purposes	Anbole. And	anbo N ^k
Anboro	c) Screw connections are secured	Anbore Anb	Niek
Anbore	d) Protective bonding not interrupted	tek Aupotes Aupo	N
k Vupote,	exempted as removable partcarries MAINS SUPPLY INPUT connection	botek Anbotek Anbot	N N
otek bu	e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4	Anbotek Anbotek A	botek N
anbotek	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)	Aupotek Aupotek	N. N. Par
Anborek	g) If mains supply passes through:	lok botek Anbote	Anbo
4	Means provided for passing protective conductor	bor Ar hotek Anbo	N Pr
10/4	Impedance meets 6.5.2.4	Anbore Am	potek
nbotek	h) Protective conductors bare or insulated, if insulated, green-and-yellow	Anbotek Anbotek	Ambol N
anbolek	Exceptions:	ak botek Anboten	Anbo
hotek	1) earthing braids	ak hotek Anbotek	N
- ~/o	2) internal protective conductors etc.	port Anti-	N AC
br.	Green/yellow not used for other purposes	Anbote And otek An	otek N
abolek V.	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3	Anbotek Anbotek	Anbot N Anbot N
6.5.2.3	Protective conductor terminal	k notek anbotek	Vupo.
hotek	a) Contact surfaces are metal	And otek anbotek	b /p _o ,
P.U.	b) Appliance inlet used	Jotes Ann tek anbot	N An'
lok Vi	c) For rewireable cords and permanently connected equipment, protective conductor terminal is close to mains supply terminals	Anbotek Anbotek An	otek N
vupotek ipo,	d) If no mains supply is required, any protective conductor terminal:	k hotek Anbotek	Auporek
Anborek	Is near terminals of circuit for which protective earthing is necessary	Jotek Ambotek Ambotek	N
Anbo	External if other terminals external	otek Aupoles Aupo	N



Anbotek (Guangzhou) Compliance Laboratory Limited Page 14 of 52 Report No. 58250SC00004201

lause	Requirement – Test	Result - Remark	Verdict
Arr	Totak Vipolak Vipo, Vy.	Aupoter Aupo	polek
Hotek b	e) Equivalent current-carrying capacity to mains supply terminals	Anbotek Anbotek	Anbo'N'
Yel	f) If plug-in, makes first and breaks last	Anto tek abotek	N
Anborek	g) If also used for other bonding purposes, protective conductor:	otek Anbotek Anbotek	-Aup.
Anbe	Applied first	Anbotek Anbotek	N
ek o	Secured independently	Augo sek upotek bi	N
dek	Unlikely to be removed by servicing	Augo, W. Wolek	Anbolo.
No.	h) Protective conductor of measuring circuit:	Anbor All hotek	PLIN _{OLON}
Anbotek	Current RATING equivalent to measuring circuit TERMINAL;	otek Anbotek Anbotek	Nabe
nbo	2) PROTECTIVE BONDING:	Vico, rek spolek Vupo	N
6/r	Not interrupted; or	Aupor Air	porek N
potek A	i) Functional earth terminals allow independent connection	Anbotek Anbotek	Anbolok Hotek
Anbotek	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:	olek Vipotek Vipotek	P Anbo
Alle	Suitable size for bond wire	Model Aubo, Photo	e ^k P N
PUPO	Not smaller than 4,0mm (No. 6)	Anbotek Anbote An	notell P
Op.	At least 3 turns of screw engaged	upolek Aupole An	P
potek	Passes tightening torque test	abotek Anboten	Prek
Anborek	k) Contactpressure not capable being reduced by deformation of materials	blek Anbotek Anbotek	Anbo
5.2.4	Impedance of protective bonding of plug- connected equipment	notek Anborek Anbor	N N
otek Ar	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:	Anbotek Anbotek An	Anbotek Anbotek
Aupo,	less than 0,1 Ohm; or	Anbore Anb	N
Anboron	less than 0,2 Ohm if equipment is provided with non detachable cord	nbotek Anbotek Anbot	M N
5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	Aupotek Aupotek Aut	otek N
5.2.6	Transformer protective bonding screen	Pur Potek Vupotek	N.K
Anbotek Lek	Transformer provided with screen for protective bonding:	Anbotek Anbotek	Anbot Anbot
Anbot.	screen bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses (see6.5.2.2 a)	Anbotek Anbotek Anbote	k N An



Anbotek (Guangzhou) Compliance Laboratory Limited Page 15 of 52 Report No. 58250SC00004201

Clause	Requirement – Test	Result - Remark	Verdict
Diadoc	requirement rest	Tresuit Tremain	Verdict
orek p	screen bonding with soldered connection (see 6.5.2.2 b) is:	Anbotek Anbotek	Anbo'N'
work.	- Independently secured against loosening	And tek anbotek	P.W.
Vin.	- Not used for other purposes	oter Aupore	Ninto
5.5.3	Supplementary insulation and reinforced insulation	inbotek Anbotek Anb	Key P
yek p	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	Anbotek Anbotek	nbotek nbotek
6.5.4	Protective impedance	Aupotek Aupo	Novel
Anbotek	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION	tek Anbotek Anbotek	N Anbo
yek Anbo	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCE DINSULATION of 6.7	Anbotek Anbotek Anb	botek N
nbotek	The protective impedance consists of one or more of the following:	Anbotek Anbotek	Anborek Anborek
Anbotek	a) appropriate single component suitable for safety and reliability for protection, it is:	ek Anbotek Anbotek	Nopo
Anbo	RATED twice the maximum WORKING VOLTAGE	Arbotek Anbotek Arbo	N N
Potek V.	resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE	Anbotek Anbotek	Anbot N
hotek	b) combination of components	And stek anbotek	AC N
Anbotek	Single electronic device not used asPROTECTIVE IMPEDANCE	otek Anbotek Anbotek	N ₁₀₀
6.5.5 _M	Automatic disconnection of the supply	notek anbotek Anbo	N
ick bu	a) RATED to disconnect the load within time specified in Figure 2	Anbotek Anbotek An	boto N
	b) RATED for the maximum load conditions of the equipment	Anbotek Anbotek	Nek
5.5.6	Current- or voltage-limiting device	And atek anbotek	N
Pir.	Device complies with all of:	poter And	N M
ek An	a) RATED to limit the current or voltage to the level of 6.3.2	Anbotek Anbotek An	otek N
Notok .	b) RATED for the maximum working voltage; and	Ans atek Anbotek	Mupo, N
Anbotek	RATED for the maximum operational current if applicable	ok Anbotek Anbotek	Ant N
Anboro,	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7	otek Anbotek Anbot	N Ani



Anbotek (Guangzhou) Compliance Laboratory Limited Page 16 of 52 Report No. 58250SC00004201

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
. Was	motel Antotes Antones botek	Antion Anti-	polek
6.6	Connections to external circuits	Anbotek Anbo	- APOPE
6.6.1	Connections do not cause ACCESSIBLE parts of the following to become HAZARDOUS LIVE in NORMAL CONDITION or SINGLE FAULT CONDITION:	stek Anbotek Anbotek	Anborek Anborek
W'0'	- the external circuits	hipor Air hotek Anbo	b W
- o/c	- the equipment	Anbore Am	ipotek P
O/_ b	Protection achieved by separation of circuits; or	Anbole And Arek	snbolP ^k
Anbo, potek	short circuit of separation does not cause a HAZARD	Anbotek Anbotek	Anoriek
"potel	Instructions or markings for each terminal include:	or Am	Bupo
k he	a) Rated conditions for terminal	Anbore Anbo	ek P M
V. Vin	b) Required rating of external circuit insulation	Anbores Anb	potel ^k N
6.6.2	Terminals for external circuits	Anbotes Anbo tek	, abotal
Anbotek	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection	lek Anbotek Anbotek	Anbliek
6.6.3	Circuits with terminals which are hazardous live	No such hazardous live terminals	8k -
* 0 k	These circuits are:	Anbore Am	potek
o, b	Not connected to accessible conductive parts; or	Anbore And Arek	Niodne
Vupotek Vupotek	Connected to accessible conductive parts, but are not mains circuits and have one terminal contact at earth potential	lek Anbotek Anbotek	Ant Nek
Vupo,	No accessible conductive parts are hazardous live	botek Anbores Ans	N N
6.6.4	Accessible terminals for stranded conductors	potek Anbores Anso	- 40k
Hek Pi	No RISK of accidental contact because:	Purpotek Vupoten Vu	N
botek	Located or shielded	And Anbotek	Anbo N
Aupolek	Self-evident or marked whether or not connected to ACCESSIBLE conductive parts	ak Anbotek Anbotek	Anbot
Anbors	ACCESSIBLE TERMINALS will not work loose	Potek Aupoter Aupo	N N
6.7 Anbo	Insulation requirements	hotek Anbotek Anbo	, ok - Vo.
6.7.1	The nature of insulation	Ame Anbotek Ant	, ok
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	ak Anbotek Anbotek	Anbotek Anbotek
6.7.1.2	Clearances	nek anbore	P Arri



Anbotek (Guangzhou) Compliance Laboratory Limited Page 17 of 52 Report No. 58250SC00004201

	-k - kolok Aupo	700.	184
Clause	Requirement – Test	Result - Remark	Verdict
No.	poter Andr K Sotek Amboten	An Lok Botok	upo,
o, potek	Required CLEARANCES reflecting factors of 6.7.1.1	Anboro Anborok	Anbo Pk
Anbotek Anbotek	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010-1 applied	otek Anbotek Anbotek	A/Po.
6.7.1.3	Creepage distances	Anbor Am notek Anbo	len b W
olek V.	Required CLEARANCES reflecting factors of 6.7.1.1	Anbotok Anbotok A	ipotek P
abotek	CTI material group reflected by requirements	y hotek Anbotes	Anba P .ak
abotek	CTI test performed	ok hotek Anbotek	MP.
6.7.1.4	Solid insulation	An totek Anbotek	Nupo
k Anbo	Required CLEARANCES reflectingfactors of 6.7.1.1	Anbotek Anbotek Anbo	lek N M
6.7.1.5	Requirements for insulation according to type of circuit	Anbotek Anbotek Ar	Anbotek
Anbotek Anbotek	a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V	otek Vupotek Vupotek	Anbo
Anbo	b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transformer	Anbotek Anbotek Anbot	ek P M
orek ar	c) In K.1 for mains circuits of overvoltage category III or IV or for overvoltage category II over 300V	Anbotek Anbotek An	ootek N
inboter hotek	d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer	Anbotek Anbotek	Anborek Anborek
Aur - otek	e) In K.3 for circuits that have one or more of:	Anbo tek nbotek	Nipos
	maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT	Anbotek Anbotek Anbot	ak N an
hotek by	maximum TRANSIENT OVERVOLTAGE above the level of MAINS CIRCUIT	Anbotek Anbotek	Anbot N
Anbotok	WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage	tak Anbotek Anbotek	Anhor
Anboro	WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform	anbotek Anbotek Anbote	N Ant
rek Ani	5) WORKING VOLTAGE with a frequency above 30 kHz	Anbotek Anbores An	Anbote N
6.7.2	Insulation for mains circuits of overvoltage II with a nominal supply voltage up to 300V	Anbotek Anbotek	Ant N
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES	tek społek Anbores	Р
	Values for MAINS CIRCUITS of table 4 are met	Po. Pr. " Vie	P Ani



Anbotek (Guangzhou) Compliance Laboratory Limited Page 18 of 52 Report No. 58250SC00004201

Aupo,	EN 61010-1	hotek Anbore Ann	- 10
Clause	Requirement – Test	Result - Remark	Verdict
405	totek Anbo. A. stak suboten	And Selek An	port
	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	Anborek Anborek	Anbo Pk
6.7.2.2	Solid insulation	Ann otek Ambotek	N
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	Anbotek Anbotek Anbotek	N _i nb ^o
otok V	Equipment passed voltage tests of 6.8.3 with values of Table 5	Anborek Anborek A	potek N
abotek	Complies as applicable:	ol botek Anbotek	And N vek
Anbotek	a) ENCLOSUREor PROTECTIVE BARRIER Clause8	oftek Anbotek Anbotek	Anbo
k Anbo	b) moulded and potted parts requirements of 6.7.2.2.2	Aupotek Aupotek Aup	ek N
otek bi	c) inner layers of printed wiring boards requirements of 6.7.2.2.3	Anbotek Anbotek An	oo ^{ten} N
nbotek	d) thin-film insulation requirements of 6.7.2.2.4	sk spotek Aupole	N _{tek}
5.7.2.2.2	Moulded and potted parts	ek abotek Anbotes	ATN.
Anbotek	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed	Albotek Anbotek Anbotek	N ^{nba}
6.7.2.2.3	Inner insulation layers of printed wiring boards	Anbore An Motek An	N
inbotek	Separated by at least 0,4 mm between same two layers	k Anbotek Anbotek	Anbotek Kotek
Anbotek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	o'ek Anbotek Anbotek	Anbot Anbot
Anti	a) thickness at least 0,4 mm	PLOotek Vupo, W. Spot	N pri
rek Anb	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	Anbotek Anbotek An	otek N
	c) insulation is assembled of minimum two separate layers, where the combination is rated for test voltage of Table 5 for REINFORCED INSULATION	otek Anbotek Anbotek	Nek Anbok
6.7.2.2.4	Thin-film insulation	100. W Potek William	N Pag
rek An	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	Anbotek Anbotek Ant	otek N
Anbotek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Aupotek Aupotek	Anto N
Anbotek	a) thickness at least 0,4 mm	stek supotek Aupote	N
ak Anborr	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	Anbotek Anbotek Anbot	N Am
by.	111211111111111111111111111111111111111	And And	Noto-



Anbotek (Guangzhou) Compliance Laboratory Limited Page 19 of 52 Report No. 58250SC00004201

Clause	Requirement – Test	Result - Remark	Verdict
Jiddoc	Troquillement Tool	Tresult Tremain	Verdict
orek Imbotek	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	Anbotek Anbotek
5.7.3	Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V	inbotek Anbotek Anbote	N
5.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:	Anbotek Anbotek	nbote N
inpolek	- REINFORCED INSULATION	Anbotek Anbot	Niek
Anbotek	- DOUBLE INSULATION	tek spotek Anbore	N
Anbotel	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL	hotek Anbotek Anbote	N. N.
6.7.3.2	CLEARANCES	anbotok Anboto An	notel P
anbotek A	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or	Anbotek Anbotek	Anborek
Anbore.	twice the values of Table 6 for REINFORCED INSULATION	ek Anbotek Anbotek	P
Anbr	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:	hotek Anbotek Anbo	iek Par
otek p	1) values forREINFORCED INSULATION are 1,6 times the values for BASIC INSULATION	Winder William W	Anbotek
Aupolek Vapolek	if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3	lek Anbotek Anbotek	Ant Brek
Anbo	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3	anbotek Anbotek Anbo	otek N An
6.7.3.3	CREEPAGE DISTANCES	upotek Aupotes Ar	· P
Anbotek	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION	ak Anbotek Anbotek	Anborek
Anbores	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION	potek Anbotek Anbot	ek P
lek Vu	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	Anborek Amborek An	otek N
6.7.3.4	Solid insulation	Ame otek anbotek	Anbo N
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	ek Anbotek Anbotek	Anbor
Anbol	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION	Ambotek Ambotek Ambot	otek N M



Anbotek (Guangzhou) Compliance Laboratory Limited Page 20 of 52 Report No. 58250SC00004201

Clause	Requirement – Test	Result - Remark	Verdict
Anb	rek inbotek Anbore Anti-	Anbetek Anbor Air	hotel
notek A	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION	Anbotek Anbotek	AnboN ⁴
Anbotek Anbotek	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	nbotek Anbotek Anbotek	okey W
olek V.	value for REINFORCED INSULATION are twice the WORKING VOLTAGE	Anbotek Anbotek	Albore N
nbotek	Complies as applicable:	anbotek Anbot	Nak
Anbotek	1) ENCLOSURE or protective barrier Clause 8	lek obotek Anbote	N
Aupotek	2) moulded and potted parts requirements of 6.7.3.4.2	botek Anbotek Anbote	N _{Wa}
otek Anbe	inner layers of printed wiring boards requirements of 6.7.3.4.3	Anbotek Anbotek	shotek N
wolek	4) thin-film insulation requirements of 6.7.3.4.4	And tek anbotek	AnborN
5.7.3.4.2	Moulded and potted parts	Anbo Lak abotak	MN
Anbotek	Conductors between same two layers are separated by applicable distancesof Table 8	ek Anbotek Anbotek	Nobo
5.7.3.4.3	Inner insulation layers of printed wiring boards	tek społek Aupo	N
Jok PL	Separated by at least by applicable distances of Table 8 between same two layers	Anbotek Anbotek A	nootek N
nbotek	REINFORCED INSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek	N _{ek}
Ans	a) thickness at least applicable distance of Table 8	ler Anbo	Npo
Anbot	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION	Anbotek Anbotek Anbo	otek N an
ipojek Vi	c) insulation is assembled of min two separate layers, where the combination is rated for 1,6 times the test voltage of Table 6	Anbotek Anbotek	Anbotek Anbotek
5.7.3.4.4	Thin-film insulation	ak Anbores Anbo	Noot
Aupor	Conductors between same two layers are separated by applicable CLEARANCES andCREEPAGE DISTANCES	otek Anbotek Anbot	ek N Ani
ek An	REINFORCED INSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek Ar	_{Anbote} N
P. Olek	a) thickness at least applicable distance of Table 8	Vupo. W. Potek	ALID N
Anborek	b) insulation is assembled of min two separate layers, each RATEDfor test voltage of Table 6 for BASIC INSULATION	otek Vupotek Vupotek	Nooti



Anbotek (Guangzhou) Compliance Laboratory Limited Page 21 of 52 Report No. 58250SC00004201

ARV	Tok More An	MOSE MADE	400
Clause	Requirement – Test	Result - Remark	Verdict
Noro	Anborek Anborek Anborek	Anb.	abore
	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:	Anbotek Anbotek	Anbotek Anbotek
Alli	a.c. test of 6.8.3.1; or	ster Andotek Anbotek	Nanba
k Aup	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages	hbotek Anbotek Anbo	N N
6.8	Procedure for voltage tests	potek Anbores A	-40k
6.9	Constructional requirements for protection against electric shock	Anbotek Anbotek	Anbotek Anbotek
6.9.1	If a failure could cause a HAZARD:	tek Aupotes Aupotes	000
Vupoje,	a) Security of wiring connections	hotek Anborek Anbo	e P
k Aup	b) Screws securing removable covers	notek Anbotek Anbo	P P
otek p	c) Accidental loosening	And otek Anbotek As	P
unbotek .K	d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening	Anbotek Anbotek	Anborek
6.9.2	Material not to be used for safety relevant insulation:	ek Anbotek Anbotek	N _{Anbo}
4	Easily damaged materials not used	both Amboth Anboth	N M
Pro-	Non-impregnated hydroscopic materials not used	Anbores And	potek N
6.9.3	Colour coding	Anbores Anso	Niodna
inpotek.	Green-and-yellow insulation shall not be used except:	Amborek Amborek	Anbolek
botek	a) protective earth conductors;	And otek Anbotek	Nipos
Pro-	b) protective bonding conductors;	pores And	N PU
r bus	c) potential equilization conductors;	Anboten Anb	otel N
V. V.	d) functional earth conductors	Aupotek Aupo	N voca
6.10	Connection to mains supply source and connections between parts of equipment	Aupotes, Vupotek	Aupolek
6.10.1	Mains supply cords	Vupo, Fek Vipolek	Fupoy,
Pun	Rated for maximum equipment current	Potek Vupo, Pek Post	P An'
Augo	Cable complies with IEC 60227 or IEC 60245	Anbotek Anbo	otel P
day be	Heat-resistant if likely to contact hot parts	anbotek Anbote An	New
hotek	Temperature rating (cord and inlet)	Anbotek Anbotes	Nek
Anbotek	Green-and-yellow used only for connection to protective conductor terminals	k Aupotek Aupotek	Anbote Anbote
Anbo	Detachable cords with IEC 60320 mains connectors:	otek Anbotek Anbote	k Anh
, olv	Conform to IEC 60799; or	Anto K Solek Ant	N



Anbotek (Guangzhou) Compliance Laboratory Limited Page 22 of 52 Report No. 58250SC00004201

Clause	Requirement – Test	Result - Remark	Verdict
Oladoo	Troquiomoni Tool	Troodic Tromain	Volunt
otek	Have the current rating of the mains connector	Anbotek Anbote	"N"
6.10.2	Fitting of non-detachable mains supply cords	. abotek Anbote	Pupp Hely
6.10.2.1	Cord entry	tek abotek Anbotek	Pupo
nbotel	Inlet or bushing smoothly rounded; or	ok botek Anbotek	N
k	Insulated cord guard protruding >5D	nbor Anbo	N
6.10.2.2	Cord anchorage:	Aupore War	ipotek
inpotek	Protective earth conductor is the last to take the strain	Anbotek Anbotek	Anbo'N
Anbotek	a) Cord is not clamped by direct pressure from a screw	tak Anbotak Anbotak	And N
Vupo,	b) Knots are not used	Ipolek Aupon W	N N
otek Vup.	c) Cannot push the cord into the equipment to cause a hazard	Anbotek Anbotek An	lookely N
inbotek	d) No failure of cord insulation in anchorage with metal parts	Anbotek Anbotek	Anbo'N
Anbotek	e) Not to be loosened without a tool	ek Anbotek Anbot	N
Anbotek	f) Cord replacement does not cause a HAZARD and method of strain relief is clear	botek Anbotek Anbote	N N
Ante	Push-pull and or torque test	Pupoter Vupor Var	N Vote
6.10.3	Plugs and connectors	Vuposek Vupos V	"ole"
nbotek	Mains supply plugs, connectors etc., conform with relevant specifications	Ambotek Ambotek	N. N. ek
Anbotek	If equipment supplied at voltages below 6.3.2.a) or from a sole source:	otek Anbotek Anbotek	N. O
Anbo	Plugs of supply cords do not fit mains sockets above rated supply voltage	Anbotek Anbotek Anbo	Potek N
Polek V.	MAINS-type plugs used only for connection to MAINS supply	Anbotek Anbotek	Anbot N
Anbotek	Plug pins which receive a charge from an internal capacitor	ok Ambotek Ambotek	An'N
Aupolo	Accessory MAINS socket outlets:	otek Anbotek Anbo	N
ak Anbo	a) Marking if accepts a standardMAINSplug (see 5.1.3e)	Ambotek Ambotek Ambo	N N
bolek br	b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT	Anborek Anborek	AnboreN AnboreN
6.11	Disconnection from supply source	k watek anbotek	Vupo,
5.11.1	Disconnects all current carrying conductors	And stek subotek	Popos
5.11.2	Exceptions	Jotes Anton Pr.	k bul
5.11.3	Requirements according to type of equipment	hotok Anboi	101



Anbotek (Guangzhou) Compliance Laboratory Limited Page 23 of 52 Report No. 58250SC00004201

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
- V-	potek Anbose And abotek	Augo, Augustok	abotel
6.11.3.1	Permanently connected equipment and multi- phase equipment	Anboten Anbotek	Ambo Nº
"otek	Employs switch or circuit-breaker	And otek Anbotek	N
Anbotek	If switch or circuit-breaker is not part of the equipment, documentation requires:	hotek Anbotek Anbote	-Aup
k Aupo	a) Switch or circuit-breaker must be included in the installation	Anbotek Anbotek Anb	ibotek N
N P	b) Suitable location easily reached	Anboton Ann	N N
upoter	c) Marking as disconnecting for the equipment	Aupoten Aupo	Notes
5.11.3.2	Single-phase cord-connected equipment	tek Anbotek Anbor	
Aupolek	Equipment is provided with:	notek Anbotek Anbote	Par.
Anboi	a) Switch or circuit-breaker; or	atek anbotek Anbe	N
tek ou	b) Appliance coupler (disconnectable without tool);	Anno tek obotek A	pose N
atek.	c) Separable plug (without locking device)	Anbo ak abotek	AnborN .
5.11.4	Disconnecting devices	Anboy ak motek	Vupole,
Vupa	Electrically close to the SUPPLY	lek Vupos v Vu	Nabo
5.11.4.1	Switches and circuit-breakers	botek Anbore Am	er N
Aupo	When used as disconnection device:	abotek Anbore Ano	N Varia
lek Vu	Meets IEC 60947-1 and IEC 60947-3	Potek Pupoter Vi	N
botek	Marked to indicate function	wotek Aupoten	And N. ak
botek	Not incorporated in MAINS cord	k notek anbotek	Ann
Anbotek	Does not interrupt PROTECTIVE EARTH CONDUCTOR	potek Anbotek Anbotek	N.boo
5.11.4.2	Appliance couplers and plugs	botek Anboten Anb	10K
ek An	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):	Anbotek Anbotek Ar	Anbotok
Pupolek Po,	Readily identifiable and easily reached by the operator	Anbotek Anbotek	Ant Nek
Anborek	Single-phase portable equipment cord length not more than 3 m	potek Anbotek Anbotek	N N
ak Aupo.	Protective earth conductor connected first and disconnected last	Anbotek Anbotek An	otek N
- V.	Potek Aupole Alle tek potek	Vupo, bu	anbotek

7	Protection against mechanical hazards	Anbolt An Hotek	Anbatek
7.11 Ambs	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION	Anbotek Anbotek	Anbotek Anbo
Þ	Conformity is checked by 7.2 to 7.7	abotek Anbor An	otel [®] P



Anbotek (Guangzhou) Compliance Laboratory Limited Page 24 of 52 Report No. 58250SC00004201

Clause	Requirement – Test	Result - Remark	Verdict
Anb	otek Anbotek Anbote Ans	Anbotak Anbo. An	abolek
.2	Sharp edges	anbotek Anbote	No PK
nbotek	Easily-touched parts are smooth and rounded	. abotek Anbote	Potel
anbotek	Do not cause an injury in normal use and	rek spokek Auporen	Р
ambore	Do not cause an injury in single fault condition	tek abotek Anboies	P
.3	Moving parts	upo, My polek Vupo	1
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	iborek Anborek
Anbotek	RISK assessment in accordance with 7.3.3 carried out	tek Anbotek Anbotek	MN
.3.2 Moote	Exceptions:	notek Anbotek Anbore	W. Pre-
Anbe	Access to HAZARDOUS moving parts permitted under following circumstances:	Anbotek Anbo	N botek N
opotek p	a) obviously intended to operate on parts or materials outside of the equipment	Anbotek Anbotek	AnbotN'
Anborek	inadvertent touching of moving parts minimized by equipment design (e .g. guards or handles)	ek Anbotek Anbotek	AnN anbo
Anboic	b) If operator access is unavoidable outside normal use following precautions have been taken:	botek Anbotek Anbot	ek N
log b	1) Access requires TOOL	botek Anbote An	N
botek	2) Statement about training in the instructions	hotek Anbotek	Anba N N
Anbolek	Warning markings on covers prohibiting access by untrained operators	ak Anbotek Anbotek	An N
Pupo.	or symbol 14 with full details in documentation	potak Anbores Ans	N N
.3.3 kn	Risk assessment for mechanical HAZARDS to body parts	Anbotek Anbotek Anb	potek N
bojek	RISK is reduced to a tolerable level by protective measures as specified in Table 12	Aupotek Vingeley	Anbote ^N
Anbolek	Minimum protective measures:	ak abotek Anbote	Arri N
nbotek	A. Low level measures	ok hotek Anbotek	N
anbol	B. Moderate measures	30. W. Hotek Wilpote	N M
/r N.	C. Stringent measures	Anbor An otek and	otelk N
.3.4	Limitation of force and pressure	Anbore Ant	Netoday
o' o'ek	Following levels are met in normal and single fault condition:	Anbote Ann Anbotek	Anb Nek
Anbotek	Continuous contact pressure below 50 N / cm² with force below 150 N	otek Anbotek Anbotek	N
Anbo	Temporary force below 250 N for an area at least of 3 cm² for a maximum duration of 0,75 s	upotek Aupoter Aupo	otek N



Anbotek (Guangzhou) Compliance Laboratory Limited Page 25 of 52 Report No. 58250SC00004201

477	Tok Mpole Ann	motely hupo. b.	- A
Clause	Requirement – Test	Result - Remark	Verdict
70.5	Con limitations hadrons made a name	Anbatek Anbatek	aboro NK
7.3.5	Gap limitations between moving parts	Aupo Pak	N. N.
7.3.5.1	Access normally allowed	Auport Air	Notel
	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	nbotek Anbotek Anbote Anbotek Anbotek Anbote	olek N
7.3.5.2	Access normally prevented	Anbor Am	N Notek N
upotek o	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION	Anbotek Anbotek	Anbo'N'
7.4	Stability	ok botek Anbotek	VUP.
Anbore	Equipment not secured to the building structure is physical stable	totek Anbotek Anbote	Pala
rick Anb	Stability maintained after opening of drawers, etc. by automatic means, or	Anbotek Anbotek And	N N
Inpolek	Warning marking requires the application of means	Anbotek Anbotek	Anbo'N
Anbotek	Compliance checked by following tests as applicable:	lek Anbotek Anboten	Anbo
	a) 10° tilt test for other than handheld equipment	Potek Vipos Vi	N N
itek Anb	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg	Anbotek Anbotek An	notek N
nbotek	c) downward force test for floor-standing equipment	Anbotek Anbotek	Anboth N
Anborek	d) overload test with 4 times maximum load for castor or support that supports greatest load	ek Anbotek Anbotek	Anbol Anbol
Anb	e) castor or support that supports greatest load removed from equipment	potek Aupotek Aupo	N N
7.5	Provisions for lifting and carrying	Anto stek anbotek A	N
7.5.1	Equipment more than 18 kg:	Anbo tek nbotek	Anboro N
We K	Has means for lifting or carrying; or	Anbo. Lok botek	AU N. CO.
Vuon Fel	Directions in documentation	ak Anbor An sotek	Nook
7.5.2	Handles or grips	posek Aupora Ann	ek P _{an}
Vupe	Handles or grips withstand four times weight	abotek Anboten Anbo	otek P
7.5.3	Lifting devices and supporting parts	Polek Vupoley Vi	N
bolek	Rated for maximum load; or	hotek Anbotek	No.k
botek	tested with four times maximum static load	k notek anbotek	Pu _D N
7.6	Wall mounting	Augo tek upotek	Pupo;
Pup	Mounting brackets withstand four times weight	Potek Pupo, Wr.	ek N An
7.7	Expelled parts	abolek Antiote Anti	Note -



h.	EN 61010-1	ore Annatek Anbotek	Anbo
Clause	Requirement – Test	Result - Remark	Verdict
V D//-	notek Anbotek Anbotek	Anbore And	bolek
1010	Equipment contains or limits the energy	Anbotek Anbo.	N ^c
Aupolek	Protection not removable without the aid of a tool	. anbotek Anbote	N
anbotek	Anbert Anbert Anbert	rek potek Antore	Pupp
8 Anbotel	Resistance to mechanical stresses	or an potek Anborek	-Augo
3.1 Anb	Equipment does not cause a hazard when subjected to mechanical stresses in normal use	Ambotek Ambotek Ambo	hotek P
olek b	Normal protection level is 5J	Considered 5J	P
inbotek otek	Levels below 5 J but not less than 1 J are acceptable if all the following criteria are met	Anbotek Anbotek	And Andrew
Ano	a) lower level be justified by manufacturer	tek Anbor Ak notek	Nabo
K Anbor	b) cannot easily be touched by unauthorzed persons or the general public	botek Anbotek Anbo	N N
k bu.	c) only occasional access during NORMAL USE	Anbore. And	potek N
upotek b	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the documentation	Anbotek Anbotek	Anbot N
Anbotek	For non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum rated temperature	ek Anbotek Anbotek	Anboi
k Anbo	Impact energies between IK values, the IK code marked for nearest lower value	born Anbotek Anbo	74 N 40-
otek p	Conformity is checked by performing following tests:	Anu Anbotek An	por
nbotek	1) the static test of 8.2.1	abotek Anbore	Ann P
Anborek	impact test of 8.2.2 with 5J except for hand- held equipment	ek Anbotek Anbotek	AUD. Pol
	If impact energy not selected to 5J alternate method of IEC 62262 used	botek Anbotek Anbo	N
Anbo	3) drop test of 8.3.1 or 8.3.2 except for fixed and equipment with mass over 100kg	Anbotek Anbotek Anbo	otek P
yer A	Equipment rated with an impact rating of lk 08 by that clearly meets the criteria	Vipotek Vipor V	N _{anbote} N
	After the tests inspection with following results:	Aupote. Aup	anborek.
Anboron	- Hazardous live parts above the limits of 6.3.2 not accessible	ek Anbotek Anbert	N Anbot
Anbo	- insulation pass the voltage tests of 6.8	Josek Anbors An-	N N
Aupo	i) no leaks of corrosive and harmful substances	work Anbores Anbo	P
10	ii) Enclosure shows no cracks resulting in hazard	And Hotel And	Р

Anbotek (Guangzhou) Compliance Laboratory Limited

undamaged;

iii) CLEARANCES not less than their permitted

V) Protective barriers necessary for safety have

vi) No moving parts exposed, except permitted

iv) the insulation of internal wiring remains

not been damaged or loosened

Р

Р

N

by 7.3



Anbotek (Guangzhou) Compliance Laboratory Limited Page 27 of 52 Report No. 58250SC00004201

Anbotel	EN 61010-1	Pose Vunnaposek Vuposek	Anbo.
Clause	Requirement – Test	Result - Remark	Verdict
-14	notek Anbote And Lotek	Aupor	upoles.
pole. P	vii) no damage which could cause spread of fire	Anbotek Anbo	Pr
8.2	Enclosure rigidity tests	Anbotek Anbo.	Potek
8.2.1	Static test	tek anbotek Anbo	P
Anbotek	- 30N with 12mm rod to each part of enclosure	otek Anbotek Anbot	P
ok Anbo	- in case of doubt test conducted at maximum rated ambient temperature	Anbotek Anbotek Anbo	N Am
8.2.2	Impact test	Applied to enclosure with acceptable results	Anboi Pr
Anbotek	Impact applied to any part of enclosure causing a hazard if damaged	tek Anbotek Anbotek	A/POTO
Aupoten	Impact energy level and corresponding IK code:	otek Anbotek Anbo	P
ak Aupo	Non-metallic enclosure cooled to minimum rated ambient temperature if below 2℃	Anbotek Anbo	botek P Am
8.3	Drop test	Anbotes Anbo	N odo
8.3.1	Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	Anbotek Anbotek	Anblick
bu. otek	Test conducted with a drop height or angle of:	lek Anbo tek	Nupote
8.3.2	HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	botek Anbot Anbot	ek P Mp
otek Ar	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C	Anborek Anborek An	ootek P
abotek.	Drop test conducted with an height of 1 m	kotek Anbores	P. K

9 abotek	Protection against the spread of fire	ok hotek Anbotek	<u>Anbo</u>
9.1	No spread of fire in normal and single fault condition	portek Anbotek Anbot	otek Ar
otek An	Mains supplied equipment meets requirement of 9.6 additionally	Anbotek Anbotek An	N
Anborok	Conformity for each source of HAZARD or area of the equipment is checked by one of the following:	ak Anbotak Anbotak	Ant Press
anborek	a) Fault test of 4.4; or	tek abotek Anbote	Р
k Aupol	b) Application of 9.2 (eliminating or reducing the sources of ignition); or	Anbotek Anbotek Anbot	N Amb
otek An	c) Application of 9.3 (containment of fire within the equipment)	Anbotek Anbotek An	Ambote P
9.2	Eliminating or reducing the sources of ignition within the equipment	k Anbotek Anbotek	Anbotek hotek
Anborek	a) 1) Limited-energy circuit (see 9.4); or	sek abotek Anbotes	N
Anbore	Insulation meets the requirements for BASIC INSULATION; OR	anbotek Anbotek Anbote	N American



Anbotek (Guangzhou) Compliance Laboratory Limited Page 28 of 52 Report No. 58250SC00004201

Clause	Requirement – Test	Result - Remark	Verdict
. Var.	Alborek Anborn An Otal Anborek	Anbo. Anbo. Anbolok	upole.
0,	Bridging the insulation does not cause ignition	Anbore And	_{mobo} N [€]
iuposek	b) Any ignition HAZARD related to flammable liquids (see 9.5)	No liquids used	N _{otek}
	c) No ignition in circuits designed to produce heat	oter And stek anbotek	Nupc
).3	Containment of the fire within the equipment, should it occur	nbotek Anbotek Anbo	lek b
10k	a) Energizing of the equipment is controlled by an operator held switch	Anbotek Anbotek A	ipo, N
nborek	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and	Anbotek Anbotek	Potek
bu.	Requirements of 9.5 are met	are And arek Anbotek	Nupo
0.3.1	Constructional requirements	upotes Anto	10K b
yek Vi	a) Connectors and insulating material have flammability classification V-2 or better	Fire enclosure is made of metal and plastic flame rated V-0	botek P
upotek	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)	Anbores Anborek	Andrek
by apole	c) ENCLOSURE meets following requirements:	k hotek Anbotek	P
Pu,	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:	both Ambotek Anbot	N N
lok.	i) no openings; or	potek Anbotes An	P
botek	ii) perforated as specified in Table 16; or	hotek Anbotek	Anba Nak
botek	iii) metal screen with a mesh; or	And otek ambotek	NUN
Par	iv) baffles as specified in Figure 12	on Augustan Tupotan	Nipo
Ant	Material of ENCLOSURE and any baffle or flame barrier is made of:	Fire enclosure is made of plastic flame rated V-0	ek P M
e/r	Metal (except magnesium); or	And Anbotek An	Ν
lootek	Non-metallic materials have flammability classification V-1 or better	Anbotek Anbotek	Anborek
Anbore	ENCLOSURE and any baffle or flame barrier have adequate rigidity	ek Anbole Anbolek	Panbot
.4	Limited-energy circuit	Dote Ame	bu
O/r	a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc	Anbotek Anbotek Ant	otek N
potek	b) Current limited by one of following means:	Posek Viposey	Aup
abotek	1) Inherently or by impedance;	k wotek anbotek	Nauv
more	2) Over current protective device;	And stek subotek	N
Anb	A regulating network limits also in SINGLE FAULT CONDITION	otek Anbotek Anbote	N peri
	Lor My Financial Later	and the same of th	0.7-7



Anbotek (Guangzhou) Compliance Laboratory Limited Page 29 of 52 Report No. 58250SC00004201

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
-14	notek Anboran Anb	Anbert Ant	abolek
	c) Is separated by at least BASIC INSULATION	Anboten Anbo	N ^c
Anbotek	Fuse or a nonadjustable electromechanical device is used	Anbotek Anbotek	Anborek
9.5	Requirements for equipment containing or using flammable liquids	No flammable liquids used	N _r nbo
ek Anb	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	Anbotek Anbotek Anbo	_{jbotek} N
00,0	Risk is reduced to a tolerable level :	Anbore. And	anbotek.
Aupolesk	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point	Anbotek Anbotek	Motek
by Pote	b) The quantity of liquid is limited	No such liquid used	Nupo
N N	c) Flames are contained within the equipment	ipotes Aug tek tupo	iek N An
k Bun	Detailed instructions for risk-reduction provided	Anborer Anbo	botek N
9.6	Overcurrent protection	Pupotek Vupo,	N'
9.6.1	Mains supplied equipment protected	Anbotek Anbote	Niek
Anbotek	Basic insulation between mains parts of opposite polarity provided	ek Anbotek Anbotek	N Anbot
Ans	Devices not in the protective conductor	botek Anbo	ek N Mul
otek bus	Fuses or single pole circuit-breakers not fitted in neutral (multi-phase)	Anbotek Anbotek An	ootek N
9.6.2	Permanently connected equipment	Ann.	Aupo, N
Anbotek Anbotek	Overcurrent device:	Aubo, Ar. spotek	ANN N
	Fitted within the equipment; or	Sk Vupor bush	Nipose
Vupo	Specified in manufacturer's instructions	potek Aupon we wol	ek N ant
9.6.3	Other equipment	anbotek Anbotes Anto	N *
olek b	Protection within the equipment	botek Anboten An	N

10 potek	Equipment temperature limits and resistance to	heat	Anb.
10.1 Anbotek	Surface temperature limits for protection against burns	botek Anbotek Anbotek	k Pupo
stek Anbo	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see appended table)	otek P
404	- at an specified ambient temperature of 40 °C	Aupo, Ar. Potek	AnboreN
Aupotek upo	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C	ok Anbotek Anbotek	Anb Pek Anbotek
Anbore	Heated surfaces necessary for functional reasons exceeding specified values:	potek Anbotek Anbote	k Pupo



Anbotek (Guangzhou) Compliance Laboratory Limited Page 30 of 52 Report No. 58250SC00004201

Anbotel	EN 61010-1	tek abotek Anboter	And
Clause	Requirement – Test	Result - Remark	Verdict
- V	Potek Vupojen Vien Pak Poteje	Anbo All	poler
	Are recognizable as such by appearance or function; or	Anbotek Anbotek	Anbo Nº
kolek.	Are marked with symbol 13	Ante otek Anbotek	MN
Vi. Otok	Guards are not removable without TOOL	yes And tek upotek	Nab
10.2	Temperatures of windings	upotek Vupe. Wr.	10/4 b
VUD	Limits not exceeded in:	Anborek Anbore An	Notek
olek b	NORMAL CONDITION	anbotek Anbot	P
nbotek	SINGLE FAULT CONDITION	abotek Anboten	Patel
10.3	Other temperature measurements	(see appended table)	P.P
abotek	Following measurements conducted if applicable:	ok botek Anbotek	-4.00
Anbo	a) Value of 60 °C of field-wiring terminal box not exceeded	Potek Pupotek Vupo	N P
otek M	b) Surface of flammable liquids and parts in contact with this liquids	Anbotek Anbotek As	po, N
nbotek	c) Surface of non-metallic enclosures	abotek Anbote	Ann P
Anbotek	d) Parts made of insulating material supporting parts connected to mains supply	ek Anbotek Anbotek	AnN
10.4	Conduct of temperature test	stek Anbotek Anbo	P
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	spotek Aupotek Aupo	P N
10.4.2	Temperature measurement of heating equipment	Anbotek Anbotek An	N
botek	Tests conducted in test corner	Ant otek anbotek	Anbo N
10.4.3	Equipment intended for installation in a cabinet or wall	ek abotek Anbotek	PUN'
Anbotek	Equipment built in as specified in installation instructions	otek Anbotek Anbote	N
10.5	Resistance to heat	Lotek Anbotek Anbo	P
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	Anbotek Anbotek An	por P
10.5.2	Non-metallic ENCLOSURES	anbotek Anbord	Bek
Anbotek	Within 10 min after treatment:	ak anbotek Anbote	P
10.5.3	Insulating material	stek anbotek Anbotek	P
Anbol	a) Parts supporting parts connected to MAINS supply	Anbotek Anbotek Anbot	otek P AT
les Vu	b) TERMINALS carrying a current more than 0.5 A	Aupolek Aupolo Au	word P
poter	Examination of material data; or	abotek Anboter	Pek
anbotek	in case of doubt::	k spotek Anboton	VUDO
abotek	1) Ball pressure test; or	ok notek Anbotek	Р
NO.	2) Vicat softening testof ISO 306	oto tubole	P Arri
AM	Tok Wo, Wi	184	246



Anbotek (Guangzhou) Compliance Laboratory Limited Page 31 of 52 Report No. 58250SC00004201

Clause	Requirement – Test	Result - Remark	Verdict
- K V//	hotek Arbotek Arbo Ar	Anbote Anb	hotek
11	Protection against hazards from fluids	Anbotek Anbo	aboltak
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT	Anbotek Anbotek	N _{otek}
bus con	All fluids specified by manufacturer considered	Die Aug tek upotek	Nabo
11.2	Cleaning	Anboren Anbo	el N
11.3	Spillage	Anbotek Anbo.	N ^{Notok} N
11.4	Overflow	anbotek Anbo. A	N
11.5	Battery electrolyte	h upotek Anboy	Pur Push
anbotek	Battery electrolyte leakage presents no hazard	ek obotek Anbore	N
11.6	Specially protected equipment	tek abotek Anbote	N
11.7	Fluid pressure and leakage	Anbor Ambo	- M
11.7.1	Maximum pressure	Anbore Andrew	potek -
inbotek	Maximum pressure of any part does not exceed P_{RATED}	Anbotek Anbotek	Anbo'N'
11.7.2	Leakage and rupture at high pressure	ok botek Anbotes	PruN .
Anbote	Fluid containing parts subjected to hydraulic test if:	Thotak Willpolek Wilpoles	N _{upp}
atok Anb	a) product of pressure and volume > 200 kPal; and	Anbotek Anbotek An	potek N
	b) pressure > 50 kPa	Aupo, W. Polek	Anboth
Anbotek	Parts of refrigerating systems meets pressure- related requirements of IEC 60335-24 or IEC 60335-24	Anbotek Anbotek	Anbot
11.7.3	Leakage from low-pressure parts	Dotek Anbore An	ell N ari
11.7.4	Overpressure safety device	anbotek Anbote And	4010
John 1	Does not operate in NORMAL USE	abotek Anbotes An	N
upotek	a) Connected as close as possible to parts intended to be protected	Anbotek Anbotek	Anborek
Anborel	b) Easy access for inspection, maintenance and repair	tek Anbotek Anbotek	Moor
odna	c) Adjustment only with TOOL	upotek Pupot	N Pri
, ol	d) No discharge towards person	Aupor Au	N
104	e) No HAZARD from deposit of discharged material	Aupone Aug	anbotek N
(bo)	f) Adequate discharge capacity	Aupoter Aug	Non Non
Anboro	No shut-off valve between overpressure safety device and protected parts	Ask Vupotes Vupotek	Nooti
997	187	740. 140.	



	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
- Mr.	notek Anbotek Anbotek	Anbore And	abotek
12	Protection against radiation, including laser so ultrasonic pressure	urces, and against sonic and	Anboltak Lak
12.1	Equipment provides protection	Anu otek Anbotek	N
2.2	Equipment producing ionizing radiation	ster. And stek Anbotel	Nupo
2.2.1	Ionizing radiation	nboten Anbo	rek N An
2.2.1.1	Equipment meets the following requirements:	anbotek Anbo. Anbo.	N York
rotek !	a) if intended to emit radiation meets requirements of 12.2.1.2; or	Aupotak Aupotak	Anbo N
Anbotek	tested, classified and marked in accordance to IEC 60405	tek Anbotek Anbotek	M
Aupote,	b) if only emits stray radiation meets requirements of 12.2.1.3	abotek Anbotek Anbot	N An
2.2.1.2	Equipment intended to emit radiation	Anboren Anto	botek N
(e-	Effective dose rate of radiation measured	Anbotek Anbo	N
hotek	If dose rate exceeds 5 μSv/h marked with the following:	Anbotek Anbotek	Niek
W. Potel	a) Symbol 17 (ISO 361)	e And stek Anbotek	Nupot
Pur	b) Abbreviations of the radionuclides	botek Anbo	ek N Mu
And	c) With maximum dose at 1 m;or	Anbotek Anbo	ootell N
rotek b	with dose rate value between 1 μSv/h and 5 μSv/h in m	Anbotek Anbotek	_{Ambot} N
2.2.1.3	Equipment not intended to emit radiation	Aupo, tek upotek	PUN.
Anbotek	Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept	otek Anbotek Anbotek	N pose
2.2.2	Accelerated electrons	stek anbotek Anbo	N
ek p	Compartments opened only by the use of aTOOL	And tek abotek An	N
2.3	Ultra-violet (UV) radiation	Conformity test under consideration	Anborek
Aupotek	No unintentional and HAZARDOUS escape of UV radiation:	sk Anbotek Anbotek	N Anbote
Vien	- checked by inspection; and	Joseph Auba. Poly	N Anb
AUP	- evaluation ofRISKassessment documentation	anbotek Anbote An	otek N
2.4	Microwave radiation	Anbotok Anbotos An	wotek-
potek	Power density does not exceed 10 W/m ² :	hotek Anbotes	Nak

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Sonic and ultrasonic pressure

No HAZARDOUS sound emission

N

Sound level

12.5

12.5.1



Anbotek (Guangzhou) Compliance Laboratory Limited Page 33 of 52 Report No. 58250SC00004201

Anbotel	EN 61010-1	bots Ann botek Anbotel	Anbo.
Clause	Requirement – Test	Result - Remark	Verdict
	motel Anbotton And notel	Anber	abole
	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1	Anbotek Anbotek	Anbotek Anbotek
Anboro	Instruction describes measures for protection	otek Anbore. And	Nabote
12.5.2	Ultrasonic pressure	botek Anboten Anbo	N
otek Vupo	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz	Anbotek Anbotek Anto	lootek N
nbotek	Equipment intended to emit ultrasound:	work Anbotek	And N .ok
Anbotek	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz	tek Ambotek Ambotek	A'Ñ
Aupola	If inside useful beam above values exceeded:	potek Anbotes Ans	ek N
y Aupo	Marked with Symbol 14 of Table 1	work Anbotek Anbo	N N
otek Ar	and following information in the documentation:	An Anbotek Ar	N
notek	a) dimensions of useful beam	And stek anbotek	Aupo,N
Vu.,	b) area where ultrasonic pressure exceed 110 dB	Anbotek abotek	PUN,
Vun	c) maximum sound pressure inside beam area	lek Vupo. Protek	Napole
12.6	Laser sources	botek Anbore An	ek N Mub
Pupo	Equipment meets requirements of IEC 60825-1	abotek Anbota An	N Yes

13	Protection against liberated gases, explosion a	nd implosion	Volek
13.1	Poisonous and injurious gases and substances	No injurious gases	N otek
Anbote	No poisonous or injurious gases or substances liberated in NORMAL CONDITION	potek Anbotek Anbote	ak N Anbot
V. Vuo.	Attached data/test reports demonstrate conformity	Aupotek Aupor Au	otel N AS
13.2	Explosion and implosion	anbotek Anbote Ar	~ote l
13.2.1	Components	abotek Anbore	Aug Jek
anbolek.	Components liable to explode:	ok potek Anbotes	Ano.
nbotek	Pressure release device provided; or	ok hotek Anbotek	N
k Anbo	Apparatus incorporates OPERATOR protection (see also 7.7)	Sole Ambotek Anbot	N Anbo
otek V.	Pressure release device:	potek Anbote An	40/-
nbotek	Discharge without danger	hotek Anbotek	N _{ok}
aborek	Cannot be obstructed	k wotek anbotek	Ambon N
13.2.2	Batteries and battery charging	And otek anbotek	Popos
r 200	If explosion or fire hazard could occur:	Potes Aug stek Supot	- Aupor
Piller	Protection incorporated in the equipment; or	Aupolog Aupo	otek N Ani



Anbotek (Guangzhou) Compliance Laboratory Limited Page 34 of 52 Report No. 58250SC00004201

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
. V.	Motel Antoles Area work	Auber	aborest
	Instructions specify batteries with built-in protection	Anbotek Anbotek	Aupo N.
br.	In case of wrong type of battery used:	Anti-	Vopo.
VII.	No hazard; or	ster. And stek Anbotek	N _{upor}
Anu Anu	Warning by marking and within instructions	upoten Aupo	lek N Mut
otok Ann	Equipment with means to charge rechargeable batteries:	Ambotek Ambotek A	ipotek
anbotek .	Warning against the charging of non-rechargeable batteries; and	Anbotek Anbotek	Pupo N
Anbore	Type of rechargeable battery indicated; or	tek Anbotek Anbo.	N
Aupoter	Symbol 14 used	otek Anbotek Anbo	N
k Anbol	Battery compartment design	no stek anbotek Anbo	N
otek or	Single component failure	Anbo tek obotek Ar	N
Nek	Polarity reversal test	Anbo Lek abotek	AnborN
13.2.3	Implosion of cathode ray tubes	No such device used	Pupoles.
Vupo - 6K	If maximum face dimensions > 160 mm:	lek Aupon Av. Motek	-Anbote
Vupo.	Intrinsically protected and correctly mounted; or	botek Anbore Am	dna N 4s
V. Vupo.	ENCLOSURE provides protection:	abotek Anbores Anbo	N Yes
orek pr	If non-intrinsically protected:	hotek Anboten An	10/1
abotek	Screen not removable without TOOL	hotek Anbotek	Anbol N
Lotek	If glass screen, not in contact with surface of tube	Press	Ann

14	Components and subassemblies	upole. And stek upol	ak P Anbo
14.1	Where safety is involved, components meet relevant requirements	Anbotek Anbotek An	Johan P.
14.2	Motors	And Motek Anbotek	Aupo
14.2.1	Motor temperatures	And Anbotek	Vupo,
Anbote	Does not present a HAZARD when stopped or prevented form starting; or	notek Anbotek Anbotek	N _{poolo}
k Aup	Protected by overtemperature or thermal protection device conform with 14.3	Anbotek Anbotek Anbo	otek N An
14.2.2	Series excitation motors	Anbore And	obotek
unbore sportek	Connected direct to device, if overspeeding causes a HAZARD	k hotek Anbotek	Aup Nek
14.3	Overtemperature protection devices	And otek anbotek	N
P Pri	Devices operating in a SINGLE FAULT CONDITION	Poter Wun	N Anbox
buch	a) Reliable function is ensured	Pupoten Pupo	otek N Ani



Anbotek (Guangzhou) Compliance Laboratory Limited Page 35 of 52 Report No. 58250SC00004201

o to interrupt maximum current and e not operate in NORMAL USE setting device used to prevent aHAZARD, d part requires intervention before g Iders ss to HAZARDOUS LIVE parts oltage selecting devices	Result - Remark	Verdict N N N N N N N N N N N N N
not operate in NORMAL USE setting device used to prevent aHAZARD, d part requires intervention before g Iders ss to HAZARDOUS LIVE parts Ditage selecting devices	Anbotek	N N
not operate in NORMAL USE setting device used to prevent aHAZARD, d part requires intervention before g Iders ss to HAZARDOUS LIVE parts Ditage selecting devices	Anbotek	N N
setting device used to prevent aHAZARD, d part requires intervention before g lders ss to HAZARDOUS LIVE parts oltage selecting devices	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N. nbo
d part requires intervention before g Iders ss to HAZARDOUS LIVE parts Ditage selecting devices	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Poses N
ss to HAZARDOUS LIVE parts Oltage selecting devices	Anbotek Ankatek	100
oltage selecting devices	Anbotes Annatek	N odo
An Anbo	Anboren Anbe	
All Abort Aire	100	Niek
al change not possible	stek Anbotek Anbo	N
ansformers tested outside equipment	otek Anbotek Anbo	N
viring boards	and anbotek Anbo	N
ows conformity with V-1 of IEC 60695-11-tter; or	Anbotek Anbotek Ar	potek N
ws conformity with V-1 of IEC 60695-11- tter	Anbotek Anbotek	N _{tek}
icable for printed wiring boards with nergy circuits (9.4)	Potek Vupotek Vupotek	N ₀ po
or components used as TRANSIENT TAGE limiting devices	Anbotek Anbotek Anbo	potek N
ducted between each pair of MAINS 'TERMINALS	Anbotek Anbotek	Anbo'N Anbo'N
ARD resulting from rupture or overheating imponent:	lek Anbotek Anbotek	AnN Anbot
ging of safety relevant insulation	potek Anbores Anao	N N
t to other parts above the self-ignition	Anbotek Anbotek Anbo	N N
	ows conformity with V-1 of IEC 60695-11- tter icable for printed wiring boards with nergy circuits (9.4) or components used as TRANSIENT TAGE limiting devices iducted between each pair of MAINS of TERMINALS ARD resulting from rupture or overheating imponent: ging of safety relevant insulation	aws conformity with V-1 of IEC 60695-11- tter icable for printed wiring boards with nergy circuits (9.4) or components used as TRANSIENT TAGE limiting devices iducted between each pair of MAINS / TERMINALS ARD resulting from rupture or overheating imponent: ging of safety relevant insulation

15	Protection by interlocks	anbotek
15.1	Interlocks are designed to remove a hazard before OPERATOR exposed	tek Nootek
15.2	Prevention of reactivating	Ipotek N Anbo
15.3	Reliability	antorek An
0/10	Single fault unlikely to occur; or	NesotoN
Mpolo	Cannot cause a HAZARD	New

16 Anboron	HAZARDS resulting from application	And	anbotek	Aupo.	P work
16.1	REASONABLY FORESEEABLE MISUSE	Pu.	abotek	Anbore	N Paris



Anbotek (Guangzhou) Compliance Laboratory Limited Page 36 of 52 Report No. 58250SC00004201

Clause	Requirement – Test	Result - Remark	Verdict
Jiause	Requirement – Test	Result - Remark	verdict
otek I	No hazards arising from setting not intended and not described in the instructions	Anbotek Anbotek	Anbo Nº
Anbotek	Other cases of reasonable foreseeable misues addressed by risk assessment	tek Anbotek Anbotek	N
16.2	Ergonomic aspects	botek Anbotek Anbo	P
Anbr	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:	Anbotek Anbotek Anb	P P
	a) Limitation of body dimensions	anbotok Anboto A	P
abotek	b) Displays and indicators	hotek Anbores	And P
abotek	c) Accessibility and conventions of controls	ak hotek Anbotek	MP
potek.	d) Arrangements of TERMINALS	View Vinosek Viposek	Panlos
k ro	rek Anborek Anbo ak botek	Aupoto. Aupot	OK V
17	Risk assessment	Anborek Anbo. Anbo.	potek
otek A	Rish assessment conducted, if hazard might arise and not covered by claused 6 to 16	Fully covered by clauses 6 to 16	Anbo'N'
Anbotek	Tolerable rish achieved by iterative documented process covering the following:	ek Anbotek Anbotek	PLUN NO.
Anboter	a) RISK analysis	notek Anbotek Anbot	N
K Anbo	identify HAZARDS and estimate RISKS	otek Anbotek Anbo	N
otek N	b) RISK evaluation	Vupo, Viek Vipolek Vi	N
inbotek botek	plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a rish	Ambotek Ambotek	Anbotek Anbotek
horek motek	c) Rish reduction	on Augustan augustan	Nipos
bug.	Initial risk reduced by counter measures:	Lootes Vipo, Ver Vipo,	N AN
Hek Ans	Repeated risk evalution without new risks introduced	Anbotek Anbert An	N ^{Noto} e
nbotek	Risks remaining after risk assessment addressed in instruction to responsible body:	Vipotek Vipotek	Anbo, N
Anboten	Information contained how to mitigate these rishs	lak anbotek Anbot	N
Anbore	Following principles in methods of risk reduction applied by manufactuer in giver order:	ootek Anbotek Anbote	, N AN
Pres	1) RISKS eliminated or reduced as far as possible	Anbores Ane	otel N
Potek PL	Protective measures taken for risks that cannot be eliminated	Anbotek Anbets Att	_{Ambote} N
Anbotek	User information about residual risk due to any defect of the protective measure	ok Anbotek Anbotek	AntoN nbots
Anborek	Indication of particular training is required	otek Anbotek Anbore	N
Anbor	Specification of the need for personal protective equipment	hotek Anbotek Anbote	N N



Anbotek (Guangzhou) Compliance Laboratory Limited Page 37 of 52 Report No. 58250SC00004201

h. nbotel	EN 61010-1	ibote And hotek Anbotek	Anbo
Clause	Requirement – Test	Result - Remark	Verdict
- W	notek Aupotan Area	Anbor An	abotek
	Conformity checked by evaluation of the risk assessment documentation	Anboten Anbotek	AnboN ^k
Pu.	Anbotel Anbo	And Stek Anbotek	Aupore
ANNEX F	ROUTINE TESTS	bote. Ann tek abotek	-Aupo,
VUD	Manufacturer's declaration	anboten Anbo	iek N an



Anbotek (Guangzhou) Compliance Laboratory Limited Page 38 of 52 Report No. 58250SC00004201

4.4.2	Table: Summary of single fault condtions			An otel P An
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	X	otek A	Anbotek Anbotek
4.4.2.2	Protective impedance	Х	-botek	Anboles Anb
4.4.2.3	Protective conductor	//-	X	Anbotes Anbo
4.4.2.4	Equipment or parts for short-term or intermittent operation	Х	Anbo	ok Aupotek Mi
4.4.2.5	Motors	X	k Dr	DOLES VICE
4.4.2.6	Capacitors	be.	otelt X	Anboren Anbo
4.4.2.7	Mains transformers	N Du.	Х	Anbotek Anbo
4.4.2.8	Outputs	botek	X	Short-circuit were applied to all outputs. No hazard.
4.4.2.9	Equipment for more than one supply	Χ	le per	otek Arbotek
4.4.2.10	Cooling	X	Pr.	wotek Anbotek
4.4.2.11	Heating devices	X M	0/0	And - anbotek
4.4.2.12	Insulation between circuits and parts	X	Tupoje,	Arthur abote
Note:	Anno tek abotek Anbote An	otok.	Anbotek	Aupo, W.

5.1.3 c)	TABLE: M	AINS supply					ootor N P
-ak	Marked rati	ing (V)		otek . Aupo	- bu	10K	
'upo,	Number of	phases	Anbo	Notek Mr	Poles - Vun	Note	
Aupo,	Frequency	(Hz)	Man	100 lelv	Aupoles A	Vo.	
Ambore	Current (m.	A)	Vupo.	h. botek	Anboten	Anbo	
Anb.	Power (W).	10011	ek Vupo,	K Hotek	Antorek	Aupo	
tek p	Power (VA))	olek Vilpoy		ek Anbotek	Pul	
Test No	Voltage (V)	Frequency (Hz)	Current (A)	Power in (W)	Power in (VA)	Co	mments
oleh	P1/00,	Pro-	wotak	upo	10/	poier	-VUD.
Note(s):							

5.3	TABLE: Du	rability of ma	rkings					ote	F P N	
	Marking	g method (see	note)			Agent				
1) Adhes	sive label	anbotek	Vupoje.	K And	A	Water	Anboro	ik bu.	-botek	
2) Ink pr	rinted	anbotek	Anbor	V. Vu	В	Isopropyl alcoh	ol 70%	40.	work.	
3) Laser	marked	ik anbotel	k An	2070	C	(specify agent)	Anb	10.	hi.	
4) Filmco	oated (plastic fo	oil control pan	el)	Anbor	D	(specify agent)		Vupo,	k	



Anbotek (Guangzhou) Compliance Laboratory Limited Page 39 of 52 Report No. 58250SC00004201

5) Imprint	on plast	ic (moulded in)	upotek Anbo	ol.	E (spe	cify agent)	, Pu,	-otek	dno
		licable include p rking is fixed.	rint method, label m	aterial, in	k or pair	nt type, fixir	ng method	, adhesive a	and
		Marki	ng location			Marking m	ethod (se	e above)	
Anbore	- Identi	fication (5.1.2)	Wipor	P11.	-1	rupotek	Vupo.	alk b	otek
Aupoten	- Mains	s supply (5.1.3)	.01	Anv .	15/K	anbotek	Vupo,	V.	hotel
Anbore	- Fuses	s (5.1.4)	patsk appole.	Ani.	Nek	Anbore	k Ani	DO, b	1111
k Anbr	- Terminals, connections and operating devices (5.1.5)					Anb	ver.	Anborek	Amo
lose. b	- Switc	hes and circuit-b	oreakers (5.1.6)	"otek	Anb	Dight I	'upo,	,borel	6
Aupoles	- Doub	le/reinforced equ	uipment (5.1.7)	PU-		nbotek	Aupo.	of Per	North
Anboten	- Field-	wiring TERMINA	AL boxes (5.1.8)	Anv .	10K	Anbotek	Anbox	by.	notel
Anbotek	- Warn	ing markings (5.	2)	Amb	1 ,04	abotel	Ant	,010 h	70-
Metho	d	Test agent	Remains legible Verdict	Label I Verd		Curled Verd	_	Commen	ts
otek 1 N	upole.	A, B	ambot ^e P An	P	br.	ek P	nbotek	Anbo	
Note(s):	Anboten	Ann	nbotek	Aupore	Pur	wo'ek	Anbotek	Anbo	No.
		70		10.		O.A.		M. VE	

6	TA	BLE: Prote	ection aga	inst electr	ic shock				654	Napote
V 200	Blo	ck diagram	of the sys	tem	- Yokek	dna	0/00	AUD. SOK	2000	
L. Ann	Pol	llution degre	e	upor bre			3010	Aupo	rek	
Ole, Vu	Ove	ervoltage in	stallation	category	Vin		Ilanboie	Anbo	. ak	
Location of	n or Insulation we		Max. working	Creepage distance (note		te 3)	Clearan ce (note voltage		Comments	
descriptio	n	(note 1)	voltage (note 2)	PWB	CTI	Other	CTI	3) mm	(note 2)	
AMB	No.	hotek	Aupo	- by	- Sek	anb	olok	Vupo.	not	ak Anb
NOTE 1 – BI = BASIC DI = DOUB PI = PROT RI = Reinfo SI = Supple	INS LE II ECTI rced	ULATION NSULATIO IVE IMPED INSULATI	N ANCE ON	NOTE 2 – ⁻ Peak impul			ulse) (NOTE 3 – II CATEGORI CATEGORI DEGREES should be s 'Comments	ES (OVER ES) or POI which diffe hown unde	VOLTAGE LLUTION r from these

6.2	TABLE: Dete	rmination of accessible p	arts	P
ı	Item	Description	Determination method	Exception under 6.2.1
nbotek Anbotek	Anbotek Anbotek	Examination	The jointed test finger (see figure B.2) is applied in every possible position	Ambotek P Ambotek
Note(s):	Anbolo	And Anbotek	Anbore Ane botek	Aupoter Aupo



Anbotek (Guangzhou) Compliance Laboratory Limited Page 40 of 52 Report No. 58250SC00004201

6.5.2.4	TABLE: Impedance	BLE: Impedance of protective bonding of plug-connected equipment							
ACCESSI	BLE part under test	Test current (A)	Voltage attained after 1 min (V)	Result					
Polose b	up tek upote	K AUPOLD K	wotek anbotek	Vupo, Vi					
Note(s):	Anbo sek sel	otek Anbote	Anu otek anbotek	Aupor Au					

6.5.2.5	equipment							
ACCESSIE	BLE part und	ler test	Voltage attained (s)	Time for voltage to drop below allowable levels(s)		sult		
DO, DI	-otek	Anbore	Aup-	-nbotek -Anbote	Ann stek	anbotek		
Note(s):	An	anb	otek Anbo.	abotek Anboten	Aug	nbolek		

6.7	TABLE:	Insulation	n requir	ements			40	P
8 100	Resistan	ce to med	hanical	stresses	Ano	anbotek	Aupo	P
10.5.1	Integrity	of CLEARA	ir abolek	ARDO	P			
	Location			I CREEPAGE TANCE (mm)	Initial CLEARANCE (mm)	Maximum working voltage (V)	Con	nments
Vupo.		ek p	upolen	And	abotek	Inpose Aug	otek	Anbore
Note(s):	bu.	notek	Anbore	Aupo	botek	Anbore. An	No No	anb
Mechanic force		Statio	;	Dynamic	Drop test, normal	Drop test, hand- held	Con	nments
A'	'D'	, sporel	-	Anto Anto	otek anbote	bupo.	be.	norek
Note(s):	Aupo	be.	rek	Vupoles b	no de de	otek Anbote	bro	301

	DEE. Diologii lo strongti	n tests for protection	against the spie	au oi iiie	
Location	Working voltage (V)	Test voltage (V)	Result	Commo	ents
Input to access part	sible	3000V	Anb Pek	Anbotek P	Anbotek

6.10.2	TABLE: Cord	anchora	ge tests				N N
Loc	cation	Mass kg	Pull N	Verdict	Torque Nm	Verdict	Comments
Jon Mup	- ok	oo'ek_	Aupole.	WUR	ek - nbotek	Achore	An-
Note(s): No	cord provided	hotek	Anbore	Anbi	hot hot	ak Aupole	Ann

8	TABLE	: Resistance	to mechanica	al stresses				P
Llocati	on	Static	Dynamic	Drop test, normal	Drop test, hand-held	Result	O	Comments



Anbotek (Guangzhou) Compliance Laboratory Limited Page 41 of 52 Report No. 58250SC00004201

Enclosure	- 10 <u>1</u>	Pass	YUP.	"otok	Pass	Mrs.	
4 Notak	Pupo.	P. POK.	- 200 ter	PUD.	101	VUPOLO	577

- Note(s): 1). 30N applied by the hemispherical end of a hard rod of 12 mm diameter
 - 2). 50mm diameter steel sphere with a mass of 500g impact from position of 1m height
 - 3). dropped once through a distance of 1 m on to a 50 mm thick hardwood board having a density of more than 700 kg/m³.

9 T	ABLE: Protection against the spread of fire			Panhole
Item	Source of hazard or area of the equipment considered (circuit, component, liquid etc.)	Protection method (9a, 9b, 9c)	Protection details	Comments
Plastic parts	why hotek Aupotek Augo	9a	Anboto	Aur Olek
Note(s):	bors An Sotek Anbotek Anbo	ok work	Aupoles	Vun.

9.3.1	TABLE: Containment of fire within the equipment	nt	N.nbo
14.7	Printed wiring boards	nbore Ans otek Anborel	N Mup
brin.	Material tested:	Anbores Anb	
0,0 P	Generic name:	Aupotek Aupo, tek	
'upolou	Material manufacturer:	Anborek Anbo	
Aupole	Type designation:	ek anbotek Anbot	
Anbore.	Colour:	otek anbotek Anbot	
Anb'	Conditioning details	otek Anbotek Anbo	
nbotek p	Thickness (mm):	1 – 2 – 3 -	
Anbores Anbores	Duration of flaming after first application (s):	1 - 2 - 3 -	
tek Am	Duration of flaming plus glowing after second application (s)	1 – 2 – 3 -	
Anbotek Anbotek	Specimen burns to holding clamp (Yes/No):	1 – 2 – 3 -	
tok Pupo	Cotton ignited (Yes/No):	1 - 2 - 3 -	
Note(s):	Motek Anbotek Anbo. Art motek	Anbores Ana	abotek

9.4	TABLE: Limited-energy circuit	K N Anboth
olek Aup	Test details: 1 –Location; 2 – maximum voltage r.m.s./dc.(V); 3 – maximum current (A); 4 – maximum power(VA); 4 – overload protection after 120s(A); 5 –	otek Ant



Anbotek (Guangzhou) Compliance Laboratory Limited Page 42 of 52 Report No. 58250SC00004201

Anbo	circuit	separation; 6	decision(Yes/N	lo); 7 – comm	ents	upole. Mur	. o.Y-
1		2	3	4	5	6	7
- No.	-100's BY-	Aupo	- 18h	-noote.	VUI.	-orok	anbor-
Note(s):	VI.	Anbore	Anbo	botek	Anbore	VUR.	nbolek

9.5	TABLE:	TABLE: Requirements for equipment containing or using flammable liquids					
k Anbot		ails: 1 –Type of liquid containment); 4 – con	; 2 –flammable liquids (b. quantity) nments	; 3 – flammable	ek Ant		
1		2	3		4		
010	Pu.	tolek lup	o. h. rek upoter	AUD	-otek		

10	TABLE:	Temperature	measurements			P
10.1	Surface to	emperature lir	nits — NORMAL CONI	DITION and / or SIGN	ILE FAULT CONDITION	P Ann
10.2	Tempera	ture of winding	gs- NORMAL CONDIT	ION and / or SIGNLE	FAULT CONDITION	M Poole
10.3	Other ten	nperature mea	asurements	Anbotek Anbo.	ak polek	Anbore P
Operating	conditions:	Normal work	ing	anbotek Ant	o, botek	
Vupo	Frequenc	y (Hz)	Pun May		Anbol K An	9/v
Aupo	Duration	(h, min)	lose Vue	,: pot ^o 1	hour 50 min	
Anbe	Voltage (V)	popolok Anbo	botek	Anborom An	
Diek b			a (°C)		K Auporez	An
Anbotek Anbotek	maximum		Tm + 40°C – Ta (°C		Tm (°C); 3 – corrected owed temperature	Anbotek Anbotek
1		2	3	4	5	6
Input termi	nal	potelt-	42.4	105	Anb Pek Ant	Jore Ann
IC	po, polek	Auporek	Anbotel 71.1	130	1P ^{bolo}	Anborek
Internal wi	e Anbotek	habotek.	48.6	130	P Anbotek	Anbotek
PCB	Anbol	_ Anboi	59.3	100	nbo Anbore	- Anbote
Transformo winding	er for	anbotel	83.5	130	Anb Pak Anb	ofek Anbo
Transformo Bobbin	er for	Aupotek Fek	79.3	130	Anbors P	Vuperek Tur
Enclosure	Anbotek	k Anbo.	50.6	120	botek P Anbotek	hupote.
Switch	Anboy	otek Anb	47.2	125	Anbotek P Anbote	Pupper
Note(s):	e. Vu	N	otek Anbote	bu _{rr}	Solek Anb	0,- P(),-



Anbotek (Guangzhou) Compliance Laboratory Limited Page 43 of 52 Report No. 58250SC00004201

10.2	TABLE: Temp	perature of re	sistance me	thod tempera	ture measu	rements	ek N anb
4.4.2.7	MAINS Transfo	ormers	Aup Vale	o. h.	botek	Aupole, Au	N N
14.2.1	Motor tempera	atures	upotek l	'upo, b	hotek	Anborek	N
Operating c	onditions:	'up dek	Anbotek	Aupore	Viv.	Anborek	
hotek	Frequency (Hz	z)	notek.	bolo	Vin Otol	k anbotek	
Pr. Polek	Duration (h, m	in)			hour	min of	² K
r ro	Voltage (V)	Anba		,: _{[M} N	Ver Vue	ne Yor	o d
N. Pilin	Ambient tempo	erature Ta₁/Ta	a ₂ (°C)		poter	°C(initial/final)	- 4
nbotek Ar	Measurements 6 –T _{max} (°C); 7			$R_{cold} \Omega; 3 - R_{v}$	$_{varm}\Omega;4-Tr$	(K); 5 – T _c (°C);	Aupotek Fek
1	2	3	4	5	6	7	8
" Potok	Vipole.	Ann	-nbotel	-Nupor	Prince	lek - Anbote	- Vupo

Note(s): 1 – Rcold = initial resistance; Rwarm = final resistance; Tr = temperature rise; Tc = Tr corrected (Tc= Tr - { Ta2 - Ta1} + [40 °C or max rated ambient]); Tmax = maximum permitted temperature

Note(s): 2 – Indicate insulation class (IEC 85) under comments (optional)

Note(s): 3 – Record values for normal condition and / or single fault condition in this Form use additional form if necessary

10.5.2	TABLE: Resistance to	heat of non-metallic encl	osures	Pupor.	
b//-	Test method used:	oo, by polek	See below		
r Vun	Non operative treatme	nt	- [anlotek Anbo tek	potek	
V. V.	Empty ENCLOSURE	Miles III	. [] Anbotek Anbo	2001sk	
hoter	Operative treatment	Pupous Pun	. [] Anborek Anbo	P. Polek	
	Part	Test temperature (°C)	Duration (h, min)	Verdict	
Anbotek	Enclosure	125	tok abah Ambara	P	
anbo	Dielectric strength test	(6.8)	. 500 V r.m.s./peak/d.c	P Am	
Note(s): No	hazardous live parts sha	all be accessible	Anbotek Anbotek An	poiek	
10.5.3	TABLE: Insulating materials				
10.5.3a)	Ball pressure test	k abotek Anbote	Anti-	Pupp.	
Vii.	Max. allowed impression	on diameter	2 mm	Pupote	
	Part	Test temperature (°C)	Impression Diameter (mm)	Verdict	
Amb	Terminal	125	Anborek M.1	otek P	
P.U.	PCB	125	0.8	_{vote} P	
potek	Enclosure	125	0.9	Par	
Note(s): No	hazardous live parts sha	all be accessible	ek Anbotek Anbote	Ann	
10.5.3	TABLE: Insulating mate	erials		N	
10.5.3b)	Vicat softening test (IS	O 306)	otek Aupotek Aupo	N	
		Vicat temperature (°C)	Thickness of sample (mm)	Verdict	



Anbotek (Guangzhou) Compliance Laboratory Limited Page 44 of 52 Report No. 58250SC00004201

Anboro	- Purpley	Andorek	Vupo.	nbotek	Vupolo-	Yup.	dno
Note(s):	-K An-	Anborek	Anbo	h. bolek	Anboren	And	
. V							1

11	TABLE: F	TABLE: Protection against hazards from fluids						Notek
Anboten			ation; 2 – clea voltage (V); 7					Anbot
1	2	3	4	5	6	7	8	9
P.U.	- 16.	-botek	Vupo,	10/r	-nboten	- Anbo	V	-01ek

11.7.2	TABLE: Leakage and rupture at high pressure					
Part	Maximum permissible working pressure (Mpa)	Test pressure (Mpa)	Leakage test Yes / No	Burst test Yes / No	Commer	nts
unbolek	Mpo, k.	work Anbot	-Anbo	ak abotek	Pit pole	Vu-
Note(s):	Aupo	An-	Pupo.	lek hodo	ek Anbore	Vue Viek
11.7.3	TABLE: Leaka	ge from low-pres	sure parts			N
r anbo	Measurements:	1 - ; 2 – (Pa); 3 –;	4 - nbotek	Vupo, Mr.	spotek Aupo	Pup.
	Part	Test pressu	ure Leak	kage (Yes/No)	Comme	nts
No.	"botek Anb	Of And	abolek Anbolek	Aupolo	Pur	Anborek
Note(s):	A. bolek	Aupotes Aupo	tek inbot	ek Anbore	k Ann	anbotek

12.2.1	TABLE: Ioniz	ing radiation			, N			
Location		Measur	Measured values μSv/h Verdict		ct	t Comm		
ok N	upoter Aug	Yor	No tok	Autore	N. Ville	otek	hotek	Papo,
Note(s):	Anboren Ar	'po	abotek	Anbol	Ano	atek.	Anbotek	Aupor
12.5.1	TABLE: Sour	nd level n	neasuremen	its				An'N
Location			Measured values dBA			Cald	Calculated maximum sound pressure level	
Aupo,	To. Ano	ek .	nbotek	Aupore-	Aur otel	dna	otek	-Vupo, v
Note(s):	ipoles Vupo	*elk	nbotek	Anbore	Vun	rek .	'upotek	Aupor
12.5.2	TABLE: Ultra	sonic pre	essure meas	surements	3			Anbore N
Location			Measured values		Comments		nents	
			dB	k	Hz			
Anti	ek- ubotek	Anb	P. V.	-otek	anbotek	Anbo.	- No.	hotek Ar
Note(s):	tode No.	ok p	nbole	Vunn.	abotel	Anb	24-	bu. Otok



Anbotek (Guangzhou) Compliance Laboratory Limited Page 45 of 52 Report No. 58250SC00004201

Battery load and charging circuit diagram:	
Battery type	
Battery manufacturer	
Battery model	
Battery catalogue No.	
Battery ratings	
Reverse polarity instalment test	N p
Single component failures Verdict	
Component Open circuit, result Short circuit, result	
Amboren Anto	Vi.
Note(s):	Vien

14.1	TABLE	: Components			Anbore P
Object/p	art No.	Manufacturer/trademark	Type/model	Technical data	Mark(s) of conformity
anborek	Aupo.	ok hotek Anbote	Vuo.	abotek Anbore	VII.
abotek	Anh	ore Am	lek Vupo,	work Aupor	Augo
6 m	tek	Anboton Anb	potek Anbore	Aug olek vu	otek Mup
Pier	Yele	Pupolek Aupor	Lotek Anborer	Anbo	bolek
740. V.	nb.	botek Anbore	Pup	ek Aupon	-otek
nbotek	Aupor	k notek anbotek	Augo	potek Anboron	Vunna - sok
bolek	Anboro	Arra tek abotely	Aupor	notek anbotek	VUPO
Pur Polok	ant	oten Mupo, Mr.	lek Vupolog	Vuga	Anboth
Pupp	· eV	abotek Anbote Anb	stek anbotek	Aupo, W.	otek Anb
VUPO		wotek Anbotek A	notek hotek	Auporg. Mus	40,1
eck pr	poter	And tok	Anboro An	ok abotek	lupo.
Nor	Notok	Pupo, Vii	Anbotek Anbo	rek spotek	Pupolo.
10075	VII.	anbotek Anbo.	notek ar	poter Aup	"potek
Aupoton	Purpo	ok notek Anbote	bug.	abotek Anbel	All.
		ore Ann stek anbo	tok Aupo,	anbote Anbote	Anbe
Pr. 01	lok I	upoten Anbo	Notek Anbore	Ann rok ab	otek Aup
Buga	40.4	abolek Anbole A	tek obotek	Vupo, K	worek p
ION DI	100,0	An. arbotek	Aupo, ok Pol	Aupoten	No.
notek	Auporen	Pupp Fek Spoley	Aupole Aur	stek suborek	Vupo
niek.	Aupotel	Vupo, by,	Anboton An	tok spotek	Aupote.
Pup.	-10	Hek Anbole Anb	lak sabolok	Anbor K An-	anbotak
Arbore	r bur	-otek Anbotek Anbo	rak notak	Anboter Anbo	00° No.
Anbol	0. b	Up. Polok W	HOLE TUR	"opotek bup,	Pu.
	1/01	abor Arr	atek anbor	br.	noter at



Anbotek (Guangzhou) Compliance Laboratory Limited Page 46 of 52 Report No. 58250SC00004201

10/4	100.	10.		Please Plan
Anbo. A	Lotek Anboten Anb	ok spotek	Anbore. And	tek and
ok Anbole	And anbotek	upo, W Wie	Anboten An	Do. No.
otek Anboten	Anbo Lok Lotok	Anbore. And	tek supotek	Aupo, h
L cotek	Aupo, Air	POLOL VIDE	101	anbole.
Anbore. And	k upotek Aupor	VII.	upoter Aupo	w. holek
Anboten Anbo	tek spotek Anbore	Aur	anbotek Anbo.	w his
anbotek Ari	o. W. Totek Vup.	Yer And	botek Anbot	Arra
k bolek	Anbore Ans	abotek Anbo	an motek an	Poles Vup.
A. notek	Anbotek Anbo	aborek Anbore	Vu.	anbotek A
Jose Yun	anbotek Anbo,	by Publich	Her Anbo	, bolek
Anboten Anbo	k botek Anbote	Aug	abotek Anboy	br. Folek
anbotek Anbo	k Lotek Anbotek	Anbo	-botek Anbote	Vur.
-botek Ani	lose, Aun sek pupo	lek Aupor	All Lotek Aubot	Anbo.
K MOLOK	Anboten Anbo	botek Anbote	Ans sek en	otek Anbo
Aur	anbotek Anbo, A	Lotek Anboten	And	botek M
ofer And	botek Anbote	Any	lek Vupo,	Potek.
upotek Anbo.	Anboten Anboten	And	botek Anbore	Vu.
abotek Anbor	An rek snbotek	Aupo, A	motel Anboten	Anba
w. wolek Wul	oter Anbo	ek Anbore	Ann stek anbore	k Wupo,
Ans	upotek Aupor Air	otek Anbotek	Aug.	otek Aupo
Note(s): 1) an asteris	sk indicates a mark which assur	es the agreed level o	f surveillance	
otok Anbo.	potek Anbotek	Anti-	lok Aupoli	An-

	May	Po. b.	-40"	V.	-03
14.3	TABLE: Over	temperature protection d	evices		And Nek
Reliability te	st:				
Com	ponent	Type(see note)	Verdict	Comm	nents
- "pol	k Aupole.	Ann tek onbo	ek Aupoi	sek anbel	ek Anbo
Note(s):	otek Anbot	Augo rek	botek Anbore	une otek ou	potek Ar
NSR = non-	self-resetting (1	0 times)			
NR = non-re	esetting (1 time)				
SR = self-re	setting (200 tim	es)			

14.6	TABLE: Mains transformers tested outside equipment				
Y Aug	Type	Anbotek Anbo.	P		
olon ok	Manufacturer	Anbotek Anbe	te _k		
anbotek.	Temperature protection class of the lowest RATED winding (class or maximum RATED temperature):	Anbolos And	hotek		
Anbote	Winding identification	nek motek	Anbotel		
and	Type of protector for winding:	on Am	Anbote		
		Short circuit	Over load		

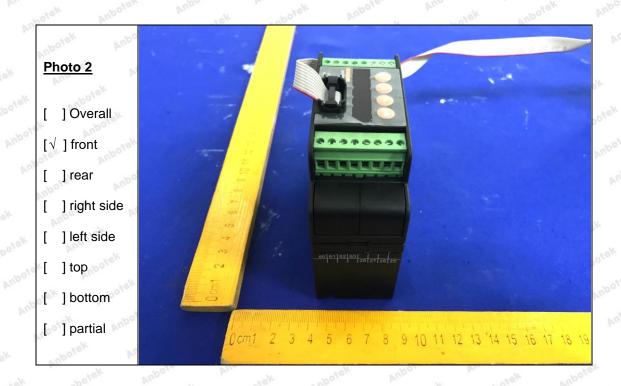


Anbotek (Guangzhou) Compliance Laboratory Limited Page 47 of 52 Report No. 58250SC00004201

	Elapsed time	1s	1s
JK Anb	Current, primary (A)	"botek Anbotek	And
otek p	Current, secondary (A)	hotek Anbol	Anbo Anbo
aborek	Winding temperature, primary (°C)	Notek Ar	Potek - Vupo.
P. Polek	Winding temperature, secondary (°C)	Arra-Otek	Anbotek Anbot
hotel	Tissue paper/cheesecloth test:	Ple. Viek	Anbotek Anbot
r bu	Voltage test	nboten And	nbotek Anb
Note(s): No	o any transformer used.	Anboten Anbe	ok botek

Anbotek (Guangzhou) Compliance Laboratory Limited Page 48 of 52 Report No. 58250SC00004201







Anbotek (Guangzhou) Compliance Laboratory Limited Page 49 of 52 Report No. 58250SC00004201

PHOTO DOCUMENTATION





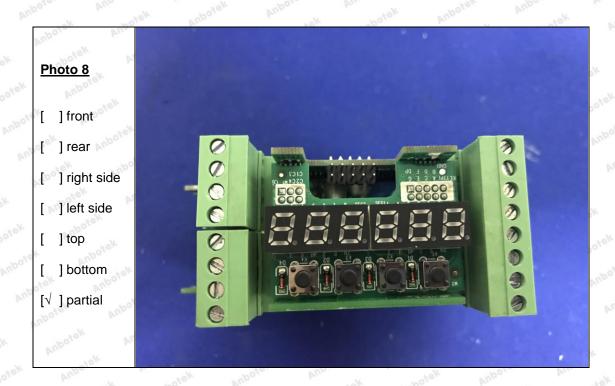
Anbotek (Guangzhou) Compliance Laboratory Limited Page 50 of 52 Report No. 58250SC00004201



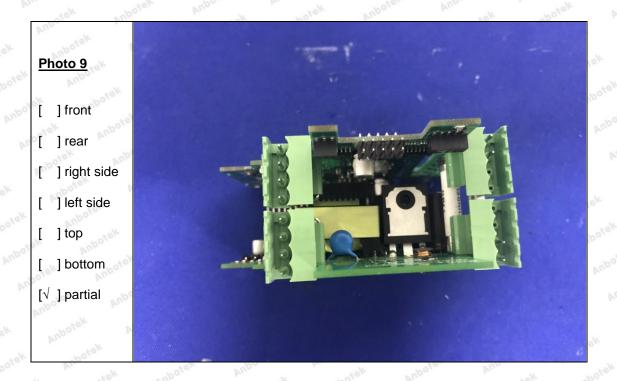


Anbotek (Guangzhou) Compliance Laboratory Limited Page 51 of 52 Report No. 58250SC00004201





Anbotek (Guangzhou) Compliance Laboratory Limited Page 52 of 52 Report No. 58250SC00004201





***** End of Report *****