

Report No.: 18220WC10093102S

Test Report

Client Name

Address :

Product Name : Wireless Charger

Date : Jun 16, 2021



Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited



TEST REPORT IEC 62368-1

Audio/video, information and communication technology equipment Part 1: Safety requirements

	18220WC10093102S	
Date of issue	2021-06-16	
Total number of pages	67 AND	
Applicant's name:	- 100 - 100	-10
Address:	ste ²	Nelk.
Test specification:		
Standard:	IEC 62368-1:2014 (Second Edition) and	
	EN 62368-1 +A11:2017	
Test procedure:	Type Test	
Non-standard test method	N/A	
General disclaimer:	tek Anbore An hotek Anborer A	tek obotek
The test results presented in this repo	ort relate only to the object tested.	
Testing procedure and testing lo	ocation:	
Testing Laboratory:	Shenzhen Anbotek Compliance I	_aboratory Limited
kek abote	Shenzhen Anbotek Compliance I : 1/F, Building D, Sogood Science and Sanwei community, Hangcheng Stree Shenzhen, Guangdong, China.51810	Technology Park, et, Bao'an District,
Testing Laboratory:	: 1/F, Building D, Sogood Science and Sanwei community, Hangcheng Stree Shenzhen, Guangdong, China.51810	Technology Park, et, Bao'an District, 2
the set abote	: 1/F, Building D, Sogood Science and Sanwei community, Hangcheng Stree Shenzhen, Guangdong, China.51810	Technology Park, et, Bao'an District,
Testing location/ address	: 1/F, Building D, Sogood Science and Sanwei community, Hangcheng Stree Shenzhen, Guangdong, China.51810	Technology Park, et, Bao'an District, 2
Testing location/ address	: 1/F, Building D, Sogood Science and Sanwei community, Hangcheng Stree Shenzhen, Guangdong, China.51810	Technology Park, et, Bao'an District, 2
Testing location/ address	: 1/F, Building D, Sogood Science and Sanwei community, Hangcheng Stree Shenzhen, Guangdong, China.51810 ature): Otto Guo	Technology Park, et, Bao'an District, 2
Festing location/ address	: 1/F, Building D, Sogood Science and Sanwei community, Hangcheng Stree Shenzhen, Guangdong, China.51810 ature): Otto Guo	Technology Park, et, Bao'an District, 2

Shenzhen Anbotek Compliance Laboratory Limited



Test Item description:	Wireless Charger
Trade Mark:	N/A https://www.actionalian.com
Manufacturer:	The same as applicant
Model/Type reference:	Anbor & Anber
Ratings:	Input: 5V–2A Output:5W

Tests performed (name of test and test clause):	Testing location:
The submitted samples were found to comply with the requirements of:	Shenzhen Anbotek Compliance Laboratory Limited
Electrical safety - IEC 62368-1:2014 - EN 62368-1 +A11:2017	1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

List of countries addressed: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

The product fulfils the requirements of EN 62368-1 +A11:2017

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

CE 🗵

Wireless Charger Model: WPC380 Input: 5V=2A Output:5W

Made in China

Shenzhen Anbotek Compliance Laboratory Limited



Product Safety	ge 4 of 65 Report No. 18220WC10093102
TEST ITEM PARTICULARS:	
Classification of use by	 Ordinary person Instructed person Skilled person Children likely to be present
Supply Connection:	 □ AC Mains □ DC Mains ○ External Circuit - not Mains connected - ○ ES1 □ ES2 □ ES3
Supply % Tolerance:	 □ +10%/-10% □ +20%/-15% □ +25%/-15% ⊠ None, (supplied by a 9VDC USB port)
Supply Connection – Type:	 Pluggable equipment type A - non-detachable supply cord appliance coupler direct plug-in mating connector pluggable equipment type B - non-detachable supply cord
Anbotek	 appliance coupler permanent connection mating connector other: Not directly connected to mains
Considered current rating of protective device as part of building or equipment installation	t N/A (Not directly connected to mains) Installation location: building; equipment
Equipment mobility:	Image: movable Image: hand-held Image: transportable Image: stationary Image: for building-in Image: direct plug-in Image: rack-mounting Image: wall-mounted
Over voltage category (OVC):	□ OVC I □ OVC II □ OVC III □ OVC IV ⊠ other:(Not directly connected to mains)
Class of equipment:	Class I Class II Class III
Access location:	restricted access location X/A
Pollution degree (PD):	□ PD 1
Manufacturer's specified maxium operating ambient :	40 °C
IP protection class	⊠ IP20
Power Systems	TN TT IT - 230 V L-L
Altitude during operation (m)	⊠ 2000 m or less □ <u>5000</u> m
Altitude of test laboratory (m)	□ 2000 m or less ⊠ <u>500</u> m
Mass of equipment (kg):	⊠ approx. 0.031 kg

Shenzhen Anbotek Compliance Laboratory Limited

BLE BY THE DOCUMENT OWNER.

THIS DOCUMENT WAS REDACTED WITH THE PRODUCTIP REDACTION TOOL ON 2022-02-17. AT THE TIME OF GENERATING THE DOCUMENT THE ORIGINAL DOCUMENT WAS AVAILABLE ALSO. THE ORIGINAL CAN ONLY BE MADE AVAILA

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

Page 5 of 65

POSSIBLE TEST CASE VERDICTS:	Anboi An hotek Anboie And dek
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement:	F (Fail)
TESTING:	otek Anboten Ant tek Anbotek Anbot
Date of receipt of test item:	2021-05-13
Date (s) of performance of tests:	2021-05-13 to 2021-05-28
The second secon	

GENERAL REMARKS:

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

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

- 1. Operating Instructions, Ratings Labels and Warnings Labels written in an Accepted or Official Language of the county in question.
- 2. The equipment complies with the National Standards and/or Electrical Codes of the country in question.
- 3. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.

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

Name and address of factory (ies)

GENERAL PRODUCT INFORMATION:

Product Description -

1. The Wireless charger supplied by 5V USB port.

Model Differences –

All model are same except model name. all testing was tested on model WPC380 and represents all other models.

Additional application considerations – (Considerations used to test a component or sub-assembly) –

- 1. The Maximum operating temperature is 40°C.
- 2. The product was supplied by an approved external power supply unit according to IEC/EN 62368-1 and output was classified as PS2 during test.

Shenzhen Anbotek Compliance Laboratory Limited



roduct Safety Page	6 of 65 Report No. 18220WC100931023
ENERGY SOURCE IDENTIFICATION AND CLASSIFICA	ATION TABLE:
Note 1: Identify the following six (6) energy source forms Note 2: The identified classification e.g., ES2, TS1, shou on the body or its ability to ignite a combustible material. worse case classification e.g. PS3, ES3.	Ild be with respect to its ability to cause pain or injury
Electrically-caused injury (Clause 5): (Note: Identify type of source, list sub-assembly or circuit classification) Example: +5 V dc input	designation and corresponding energy source
Source of electrical energy	Corresponding classification (ES)
All internal circuits	ES1
JSB input	ES1
Electrically-caused fire (Clause 6):	
Note: List sub-assembly or circuit designation and corres Example: Battery pack (maximum 85 watts):	sponding energy source classification) PS2
Source of power or PIS	Corresponding classification (PS)
JSB input	PS2
All Internal circuits	PS2
Example: Liquid in filled component	Glycol Corresponding chemical
Example: Liquid in filled component Source of hazardous substances	Glycol Corresponding chemical N/A
Example: Liquid in filled component Source of hazardous substances V/A	Corresponding chemical
Example: Liquid in filled component Source of hazardous substances I/A Mechanically-caused injury (Clause 8) Note: List moving part(s), fan, special installations, etc. 8	Corresponding chemical N/A
Example: Liquid in filled component Source of hazardous substances I/A Mechanically-caused injury (Clause 8) Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit	Corresponding chemical N/A & corresponding MS classification based on Table 35
Example: Liquid in filled component Source of hazardous substances V/A Mechanically-caused injury (Clause 8) Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy	Corresponding chemical N/A & corresponding MS classification based on Table 35 MS2
bart of the component evaluation.) Example: Liquid in filled component Source of hazardous substances V/A Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. & Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass	Corresponding chemical N/A & corresponding MS classification based on Table 35 MS2 Corresponding classification (MS)
Example: Liquid in filled component Source of hazardous substances V/A Mechanically-caused injury (Clause 8) Note: List moving part(s), fan, special installations, etc. 8 Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Fhermal burn injury (Clause 9) Note: Identify the surface or support, and corresponding e ocation, operating temperature and contact time in Table	Corresponding chemical N/A & corresponding MS classification based on Table 35 MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part,
Example: Liquid in filled component Source of hazardous substances V/A Mechanically-caused injury (Clause 8) Note: List moving part(s), fan, special installations, etc. 8 Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) Note: Identify the surface or support, and corresponding energy Stample: Hand-held scanner – thermoplastic enclosure	Corresponding chemical N/A & corresponding MS classification based on Table 35 MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part, 38.)
Example: Liquid in filled component Source of hazardous substances V/A Mechanically-caused injury (Clause 8) Note: List moving part(s), fan, special installations, etc. 8 Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) Note: Identify the surface or support, and corresponding e ocation, operating temperature and contact time in Table Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy	Corresponding chemical N/A & corresponding MS classification based on Table 35 MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part, 38.) TS1
Example: Liquid in filled component Source of hazardous substances V/A Mechanically-caused injury (Clause 8) Note: List moving part(s), fan, special installations, etc. 8 Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) Note: Identify the surface or support, and corresponding e ocation, operating temperature and contact time in Table Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy Accessible parts	Corresponding chemical N/A & corresponding MS classification based on Table 35 MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part, 38.) TS1 Corresponding classification (TS)
Example: Liquid in filled component Source of hazardous substances V/A Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. 8 Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts	Corresponding chemical N/A & corresponding MS classification based on Table 35 MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part, 38.) TS1 Corresponding classification (TS) TS1
Example: Liquid in filled component Source of hazardous substances V/A Mechanically-caused injury (Clause 8) (Note: List moving part(s), fan, special installations, etc. 8 Example: Wall mount unit Source of kinetic/mechanical energy Sharp edges and corners of accessible parts Product mass Thermal burn injury (Clause 9) (Note: Identify the surface or support, and corresponding e ocation, operating temperature and contact time in Table Example: Hand-held scanner – thermoplastic enclosure Source of thermal energy Accessible parts Radiation (Clause 10) (Note: List the types of radiation present in the product and	Corresponding chemical N/A & corresponding MS classification based on Table 35 MS2 Corresponding classification (MS) MS1 MS1 energy source classification based on type of part, 38.) TS1 Corresponding classification (TS) TS1 d the corresponding energy source classification.)

Shenzhen Anbotek Compliance Laboratory Limited

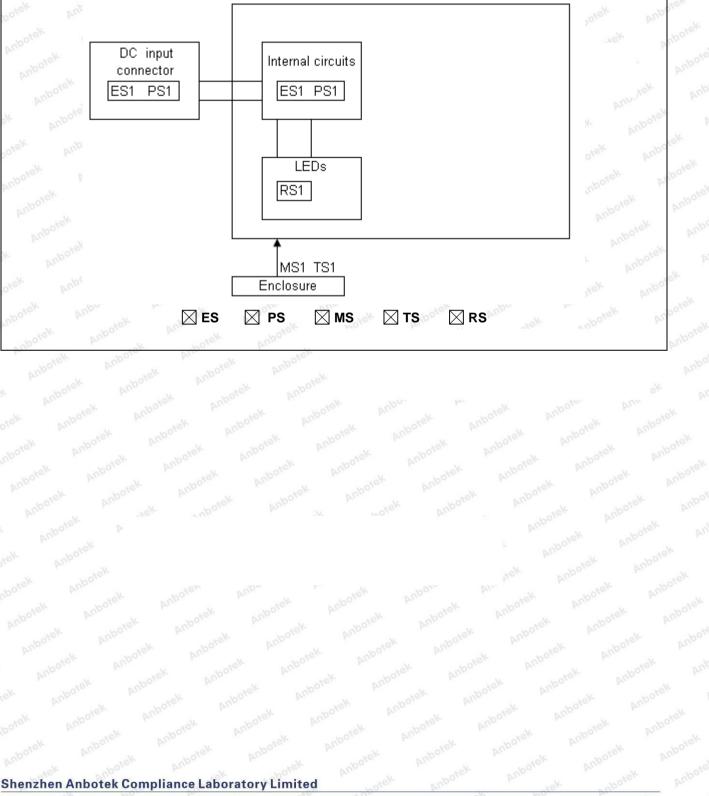
THE ORGUMENT WAS REDACTED WITH THE PRODUCTIP REDACTION TOOL ON 2022-02-17. AT THE TIME OF GENERATING THE DOCUMENT THE ORIGINAL DOCUMENT WAS AVAILABLE ALSO. THE ORIGINAL CAN ONLY BE MADE AVAILABLE BY THE DOCUMENT OWNER



ENERGY SOURCE DIAGRAM

Optional. Manufacturers are to provide the energy sources diagram identify declared energy sources and identifying the demarcations are between power sources. Recommend diagram be provided included in power supply and multipart systems.

Insert diagram below. Example diagram designs are; Block diagrams; image(s) with layered data; mechanical drawings



Anbotek Product Safety

Page 8 of 65

Report No. 18220WC10093102S

Clause	Possible Hazard			
5.1	Electrically-caused injury			
Body Part	Energy Source	Safeguards		
(e.g. Ordinary)	(ES3: Primary Filter circuit)	Basic	Supplementary	Reinforceo (Enclosure
Ordinary person, Skilled person	ES1: All Internal circuits ES1: USB input	N/A	N/A	N/A M
6.1	Electrically-caused fire			
Material part	Energy Source		Safeguards	
(e.g. mouse enclosure)	(PS2: 100 Watt circuit)	Basic	Supplementary	Reinforced
Internal combustible material/ internal plastic enclosure	PS2: All Internal circuits PS2: USB input	For "N" and "A" conditions: 1, No ignition occurred. 2, No parts exceeding 90% of its spontaneous ignition	For "S" condition: 1, PCB is complied with V-0 material. 2, All other components: at least V-2 except for mounted on	N/A
orek Anborek Anborek orek Anborek Anborek 7.1	Injury caused by hazardous	temperature.	min. V-1 material or small parts of combustible material.	orek Ant
Body Part	Energy Source	Safeguards		
(e.g., skilled)	(hazardous material)	Basic	Supplementary	Reinforce
N/A	N/A	N/A	N/A	N/A
8.1	Mechanically-caused injury			
Body Part	Energy Source		Safeguards	
(e.g. Ordinary)	(MS3: High Pressure Lamp)	Basic	Supplementary	Reinforce (Enclosure
Ordinary person, Skilled person	MS1: Sharp edges and corners of accessible parts	N/A	N/A Market	N/A
Ordinary person, Skilled person	MS1: Product mass	N/A	N/A	N/A
9.1	Thermal Burn			
Body Part	Energy Source		Safeguards	
(e.g., Ordinary)	(TS2)	Basic	Supplementary	Reinforce
Ordinary person, Skilled person	TS1: Accessible parts	N/A	N/A	N/A
10.1	Radiation	·	· · · · · · · · · · · · · · · · · · ·	
	Energy Source		Safeguards	

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

VAS

Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

A	nbotek and				
P	roduct Safety	Page 9 o	f 65	Report No. 18220	NC10093102S
Anbot	(e.g., Ordinary)	(Output from audio port)	Basic	Supplementary	Reinforced
An	Ordinary person, Skilled person	RS1: LED light	N/A	N/A	N/A
Y4	Supplementary Information:	atek anboten Ar	ip.	otek Anbor	An

(1) See attached energy source diagram for additional details.

(2) "N" – Normal Condition; "A" – Abnormal Condition; "S" Single Fault.

Shenzhen Anbotek Compliance Laboratory Limited



Page 10 of 65

Report No. 18220WC10093102S

IEC 62368-1

Clause	Requirement + Test	Result - Remark	Verdict

4	GENERAL REQUIREMENTS		
4.1.1	Acceptance of materials, components and subassemblies		Р
4.1.2	Use of components	(See appended table 4.1.2)	Р
4.1.3	Equipment design and construction		Р
4.1.15	Markings and instructions:	(See Annex F)	Р
4.4.4	Safeguard robustness		Р
4.4.4.2	Steady force tests:	(See Annex T.4)	Р
4.4.4.3	Drop tests:	(See Annex T.7)	Р
4.4.4.4	Impact tests:		N/A
4.4.4.5	Internal accessible safeguard enclosure and barrier tests	No such enclosure and barrier	N/A
4.4.4.6	Glass Impact tests:	No glass used	N/A
4.4.4.7	Thermoplastic material tests:	(See Annex T.8)	Р
4.4.4.8	Air comprising a safeguard:	Considered, but no such barrier or enclosure provided	N/A
4.4.4.9	Accessibility and safeguard effectiveness	All safeguards remain effective	Р
4.5	Explosion		Р
4.6	Fixing of conductors		Р
4.6.1	Fix conductors not to defeat a safeguard		Р
4.6.2	10 N force test applied to:		N/A
4.7	Equipment for direct insertion into mains socket - outlets	No such apparatus	N/A
4.7.2	Mains plug part complies with the relevant standard		N/A
4.7.3	Torque (Nm):		N/A
4.8	Products containing coin/button cell batteries	No coin/button cell batteries used	N/A
4.8.2	Instructional safeguard		N/A
4.8.3	Battery Compartment Construction		N/A
	Means to reduce the possibility of children removing the battery:		
4.8.4	Battery Compartment Mechanical Tests:		N/A
4.8.5	Battery Accessibility		N/A
4.9	Likelihood of fire or shock due to entry of conductive object:	(See Annex P)	Р

Product Safety Report No. 18220WC10093102S Page 11 of 65 IEC 62368-1 Result - Remark Verdict Clause Requirement + Test **ELECTRICALLY-CAUSED INJURY** Ρ 5 P 5.2.1 Electrical energy source classifications.....: (See appended table 5.2) 5.2.2 ES1, ES2 and ES3 limits Ρ 5.2.2.2 (See appended table 5.2) Ρ Steady-state voltage and current: 5.2.2.3 N/A Capacitance limits: 5.2.2.4 Single pulse limits: N/A No single pulse introduced 5.2.2.5 Limits for repetitive pulses: No repetitive pulses introduced N/A 5.2.2.6 No means for connection to Ringing signals N/A telephone network and no ringing signal generated 5.2.2.7 (See appended table 5.2) Audio signals N/A 5.3 N/A All internal circuits considered ES1 Protection against electrical energy sources 5.3.1 General Requirements for accessible parts to N/A ordinary, instructed and skilled persons 5.3.2.1 Accessibility to electrical energy sources and N/A safeguards 5.3.2.2 Contact requirements N/A a) Test with test probe from Annex V...... N/A N/A b) Electric strength test potential (V): N/A c) Air gap (mm): 5.3.2.4 N/A Terminals for connecting stripped wire 5.4 Insulation materials and requirements N/A 5.4.1.2 N/A Properties of insulating material 5.4.1.3 N/A Humidity conditioning: 5.4.1.4 Maximum operating temperature for insulating N/A materials 5.4.1.5 Pollution degree 5.4.1.5.2 N/A Test for pollution degree 1 environment and for an insulating compound 5.4.1.5.3 Thermal cycling N/A 5.4.1.6 Insulation in transformers with varying dimensions N/A 5.4.1.7 Insulation in circuits generating starting pulses N/A 5.4.1.8 Determination of working voltage N/A N/A 5.4.1.9 Insulating surfaces 5.4.1.10 Thermoplastic parts on which conductive metallic N/A parts are directly mounted 5.4.1.10.2 Vicat softening temperature.....: N/A 5.4.1.10.3 Ball pressure N/A Shenzhen Anbotek Compliance Laboratory Limited

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

Anbotek

An Product Safety

bote

BE MAD

벁

WITH THE

REDACTED

NAS

THIS DOCU

oter A	IEC 62368-1	Antonte Ant bote	K- PC
Clause	Requirement + Test	Result - Remark	Verdict
5.4.2	Clearances	K anbotek Anbor An	N/A
5.4.2.2	Determining clearance using peak working voltage	or print proboni	N/A
5.4.2.3	Determining clearance using required withstand voltage	unbotek Anborek Anborek	N/A
oter pr	a) a.c. mains transient voltage:	Anboter Anbotek Anbote	
nboter	b) d.c. mains transient voltage:	NOTE: DAV	
Aupoten	c) external circuit transient voltage		
Anbotek	d) transient voltage determined by measurement:	Dr. por	
5.4.2.4	Determining the adequacy of a clearance using an electric strength test	nbotek Anbotek	N/A
5.4.2.5	Multiplication factors for clearances and test voltages:	Your	N/A
5.4.3	Creepage distances:	1-	N/A
5.4.3.1	General	tek anbotek Anbo, h	N/A
5.4.3.3	Material Group:	stek plootek Anboi	
5.4.4	Solid insulation	hor hat abotek Anbote	N/A
5.4.4.2	Minimum distance through insulation:	Anbo ek abotek Anbote	N/A
5.4.4.3	Insulation compound forming solid insulation	Anbou Anto tek Anbo	N/A
5.4.4.4	Solid insulation in semiconductor devices		N/A
5.4.4.5	Cemented joints		N/A
5.4.4.6	Thin sheet material	80. Fr. 4. 10%.	N/A
5.4.4.6.1	General requirements	hotek Anboten And	N/A
5.4.4.6.2	Separable thin sheet material	Ante Anboten Anbo	N/A
wotek-	Number of layers (pcs):	And sotek Anbotest Anbo	N/A
5.4.4.6.3	Non-separable thin sheet material	Annu otek Anbotek An	N/A
5.4.4.6.4	Standard test procedure for non-separable thin sheet material:	Anbotek	N/A
5.4.4.6.5	Mandrel test	Anti-	N/A
5.4.4.7	Solid insulation in wound components	hor Ar And	N/A
5.4.4.9	Solid insulation at frequencies >30 kHz:	Ann otek Anbotek Anbo	N/A
5.4.5	Antenna terminal insulation	No such terminal	N/A
5.4.5.1	General	Anbo tek anbolek	N/A
5.4.5.2	Voltage surge test	otek Anbo, tek abotek	N/A
Anbo	Insulation resistance (MΩ):	pbotek Anbor At botek	
5.4.6	Insulation of internal wire as part of supplementary safeguard	Anbotek Anbote Anto	N/A

Shenzhen Anbotek Compliance Laboratory Limited

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

Anbotek Product Safety Report No. 18220WC10093102S Page 13 of 65 IEC 62368-1 Requirement + Test Result - Remark Verdict Clause 5.4.7 Tests for semiconductor components and for N/A cemented joints 5.4.8 Humidity conditioning N/A Relative humidity (%).....: Temperature (°C): Duration (h): 5.4.9 Electric strength test: N/A 5.4.9.1 Test procedure for a solid insulation type test N/A 5.4.9.2 Test procedure for routine tests N/A 5.4.10 Protection against transient voltages between No transient voltage from external N/A external circuit circuit 5.4.10.1 Parts and circuits separated from external circuits N/A 5.4.10.2 Test methods N/A 5.4.10.2.1 General N/A 5.4.10.2.2 N/A Impulse test Steady-state test.....: 5.4.10.2.3 N/A 5.4.11 Insulation between external circuits and earthed No such external circuit N/A circuitry 5.4.11.1 Exceptions to separation between external N/A circuits and earth Requirements 5.4.11.2 N/A Rated operating voltage U_{op} (V).....: Nominal voltage Upeak (V).....: Max increase due to variation U_{sp}:

 $U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa} \dots$ Components as safeguards 5.5 N/A 5.5.1 General 5.5.2 Capacitors and RC units N/A 5.5.2.1 General requirement N/A Safeguards against capacitor discharge after 5.5.2.2 N/A disconnection of a connector.....: 5.5.3 Transformers N/A N/A 5.5.4 **Optocouplers** 5.5.5 Relays N/A 5.5.6 Resistors N/A SPD's 5.5.7 N/A Shenzhen Anbotek Compliance Laboratory Limited

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

Max increase due to ageing ΔU_{sa}

Product Safety Report No. 18220WC10093102S Page 14 of 65 IEC 62368-1 Clause Requirement + Test Result - Remark Verdict 5.5.7.1 Use of an SPD connected to reliable earthing N/A 5.5.7.2 Use of an SPD between mains and protective N/A earth Insulation between the mains and external circuit 5.5.8 N/A consisting of a coaxial cable: Protective conductor 5.6 N/A 5.6.2 Requirement for protective conductors **Class III equipment** N/A N/A 5.6.2.1 General requirements 5.6.2.2 Colour of insulation N/A 5.6.3 Requirement for protective earthing conductors N/A Protective earthing conductor size (mm²): 5.6.4 N/A Requirement for protective bonding conductors 5.6.4.1 Protective bonding conductors N/A Protective bonding conductor size (mm²).....: Protective current rating (A): 5.6.4.2 5.6.4.3 Current limiting and overcurrent protective N/A devices 5.6.5 N/A Terminals for protective conductors 5.6.5.1 Requirement N/A Conductor size (mm²), nominal thread diameter N/A 5.6.5.2 N/A Corrosion 5.6.6 Resistance of the protective system N/A 5.6.6.1 Requirements N/A 5.6.6.2 Test Method Resistance (Ω): N/A 5.6.7 Reliable earthing N/A Prospective touch voltage, touch current and protective conductor current N/A 5.7 5.7.2 Measuring devices and networks N/A 5.7.2.1 Measurement of touch current: N/A 5.7.2.2 Measurement of prospective touch voltage N/A 5.7.3 Equipment set-up, supply connections and earth N/A connections System of interconnected equipment (separate connections/single connection): Multiple connections to mains (one connection at a time/simultaneous connections) Earthed conductive accessible parts: 5.7.4 N/A

Shenzhen Anbotek Compliance Laboratory Limited

Anbotek

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

Product Safety Report No. 18220WC10093102S Page 15 of 65 IEC 62368-1 Clause Requirement + Test Result - Remark Verdict 5.7.5 Protective conductor current N/A Supply Voltage (V).....: Measured current (mA)..... Instructional Safeguard.....: N/A 5.7.6 Prospective touch voltage and touch current due N/A to external circuits 5.7.6.1 Touch current from coaxial cables N/A 5.7.6.2 Prospective touch voltage and touch current from N/A external circuits 5.7.7 Summation of touch currents from external No such external circuits N/A circuits a) Equipment with earthed external circuits N/A

> Measured current (mA)..... b) Equipment whose external circuits are not

6	ELECTRICALLY- CAUSED FIRE		Р
6.2	Classification of power sources (PS) and potential ignition sources (PIS)		
6.2.2	Power source circuit classifications	Anthe stek anto	Р
6.2.2.1	General		Р
6.2.2.2	Power measurement for worst-case load fault :	(See appended table 6.2.2)	Р
6.2.2.3	Power measurement for worst-case power source fault:	(See appended table 6.2.2)	Pma
6.2.2.4	PS1	And otek Anbotek Anbo	N/A
6.2.2.5	PS2:	(See appended table 6.2.2)	Р
6.2.2.6	PS3:	Anbo tek nobolek An	N/A
6.2.3	Classification of potential ignition sources	en Anbo	N/A
6.2.3.1	Arcing PIS:	han botek	N/A
6.2.3.2	Resistive PIS:	Att notak	N/A
6.3	Safeguards against fire under normal operating and	abnormal operating conditions	× Ρ _ο
6.3.1 (a)	No ignition and attainable temperature value less than 90 % defined by ISO 871 or less than 300 °C for unknown materials	(See appended table 5.4.1.5, 6.3.2, 9.0, B.2.6)	otek P
6.3.1 (b)	Combustible materials outside fire enclosure	stek Anbotek Anboro	N/A
6.4	Safeguards against fire under single fault conditions	stek anbotek Anboth	P
6.4.1	Safeguard Method	Method of Reduction of the likelihood of ignition under single fault conditions and control fire spread used	P

Shenzhen Anbotek Compliance Laboratory Limited

nbote

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com Hotline 400-003-0500 www.anbotek.com

N/A

Anbotek Product Safety

Page 16 of 65 IEC 62368-1 Requirement + Test Result - Remark Verdict Clause 642 Reduction of the likelihood of ignition under single N/A fault conditions in PS1 circuits 6.4.3 Reduction of the likelihood of ignition under single Ρ fault conditions in PS2 and PS3 circuits 6.4.3.1 P General 6.4.3.2 Supplementary Safeguards Ρ Special conditions if conductors on printed boards N/A are opened or peeled Single Fault Conditions..... 6.4.3.3 N/A Special conditions for temperature limited by fuse N/A 6.4.4 Control of fire spread in PS1 circuits N/A 6.4.5 Control of fire spread in PS2 circuits Р 6.4.5.2 Ρ Supplementary safeguards For PCB detail See table 4.1.2 6.4.6 Control of fire spread in PS3 circuit N/A 6.4.7 Separation of combustible materials from a PIS N/A 6.4.7.1 General..... N/A 6.4.7.2 Separation by distance N/A 6.4.7.3 Separation by a fire barrier N/A 6.4.8 Fire enclosures and fire barriers Ρ 6.4.8.1 Р Fire enclosure and fire barrier material properties 6.4.8.2.1 Requirements for a fire barrier No such barrier used. N/A 6.4.8.2.2 Requirements for a fire enclosure Ρ 6.4.8.3 Constructional requirements for a fire enclosure Р and a fire barrier 6.4.8.3.1 No openings on the fire enclosure. Р Fire enclosure and fire barrier openings 6.4.8.3.2 Fire barrier dimensions N/A 6.4.8.3.3 Top Openings in Fire Enclosure: dimensions N/A Needle Flame test N/A 6.4.8.3.4 Bottom Openings in Fire Enclosure, condition met N/A a), b) and/or c) dimensions (mm): Flammability tests for the bottom of a fire N/A enclosure: Integrity of the fire enclosure, condition met: a), 6.4.8.3.5 N/A b) or c) 6.4.8.4 Separation of PIS from fire enclosure and fire For enclosure detail See table 4.1.2 P barrier distance (mm) or flammability rating: 6.5 Internal and external wiring Ρ

Shenzhen Anbotek Compliance Laboratory Limited

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

Hotline 400-003-0500 www.anbotek.com

Report No. 18220WC10093102S

Product Safety

Clause Q.1

An

Page 17 of 65 Report No. 182

Report No. 18220WC10093102S

otek	IEC 62368-1		
Clause	Requirement + Test	Result - Remark	Verdict
Ann	abotek Anbor k hotek Anbore	An aboten An	bo. b
6.5.1	Requirements	ok Anbor Anborek	Anbote P
6.5.2	Cross-sectional area (mm ²):	(See appended table 4.1.2)	_
6.5.3	Requirements for interconnection to building wiring:	Anbotek Anbotek Anbotek	N/A
6.6	Safeguards against fire due to connection to additional equipment	Anbou Anbotek Anbot	N/A
abotek	External port limited to PS2 or complies with		N/A

7	INJURY CAUSED BY HAZARDOUS SUBSTANCES		
7.2	Reduction of exposure to hazardous substances	No such hazardous substances	N/A
7.3	Ozone exposure	No ozone production	N/A
7.4	Use of personal safeguards (PPE)	· · · · · · · · · · · · · · · · · · ·	N/A
Anbote	Personal safeguards and instructions:	tek Anboren Anbo	_
7.5	Use of instructional safeguards and instructions	hotek Anbotet Anbo	N/A
ek p	Instructional safeguard (ISO 7010)	hotek Anboten Anbo	_
7.6	Batteries	Ann stek anboten Anbo	N/A

8	MECHANICALLY-CAUSED INJURY		Р
8.1	General		Р
8.2	Mechanical energy source classifications	bo. A. sek abote.	P
8.3	Safeguards against mechanical energy sources	Anbotek Anbo tek potek	Ribor
8.4	Safeguards against parts with sharp edges and corners	Anbotek Anbotek Anbot	et P Ant
8.4.1	Safeguards	MS1 classification	N/A
8.5	Safeguards against moving parts	en Anbo	N/A
8.5.1	MS2 or MS3 part required to be accessible for the function of the equipment	L Anbotek	N/A
8.5.2	Instructional Safeguard:	Anbo	
8.5.4	Special categories of equipment comprising moving parts	Anbotek Anbotek Anbot	N/A
8.5.4.1	Large data storage equipment	k Aupolen Aup	N/A
8.5.4.2	Equipment having electromechanical device for destruction of media	otek Anbotek Anbotek	N/A
8.5.4.2.1	Safeguards and Safety Interlocks	inbola Anti-	N/A
8.5.4.2.2	Instructional safeguards against moving parts	Anboren Anne Anborek Anbore	N/A
npoter	Instructional Safeguard	Anboren Anbo	

Shenzhen Anbotek Compliance Laboratory Limited



Anbotek Product Safety Report No. 18220WC10093102S Page 18 of 65 IEC 62368-1 Result - Remark Verdict Clause Requirement + Test 8.5.4.2.3 Disconnection from the supply N/A 8.5.4.2.4 Probe type and force (N) N/A 8.5.5 **High Pressure Lamps** N/A 8.5.5.1 **Energy Source Classification** N/A 8.5.5.2 High Pressure Lamp Explosion Test..... N/A 8.6 Stability Mass < 7kg N/A 8.6.1 Product classification MS1 N/A Instructional Safeguard..... 8.6.2 Static stability N/A 8.6.2.2 Static stability test N/A Applied Force: 8.6.2.3 Downward Force Test N/A 8.6.3 N/A Relocation stability test Unit configuration during 10° tilt: 8.6.4 Glass slide test N/A 8.6.5 Horizontal force test (Applied Force).....: N/A Position of feet or movable parts.....: 8.7 Equipment mounted to wall or ceiling 8.7.1 Mounting Means (Length of screws (mm) and mounting surface):

N/A N/A 8.7.2 Direction and applied force..... N/A • 8.8 Handles strength N/A 8.8.1 Classification N/A 8.8.2 N/A Applied Force: 8.9 Wheels or casters attachment requirements N/A 8.9.1 Classification N/A 8.9.2 Applied force: 8.10 N/A Carts, stands and similar carriers 8.10.1 General N/A 8.10.2 Marking and instructions N/A Instructional Safeguard: 8.10.3 Cart, stand or carrier loading test and compliance N/A Applied force: 8.10.4 Cart, stand or carrier impact test N/A

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

Mechanical stability

Shenzhen Anbotek Compliance Laboratory Limited

8.10.5

N/A

Product Safety Report No. 18220WC10093102S Page 19 of 65 IEC 62368-1 Clause Requirement + Test Result - Remark Verdict Applied horizontal force (N) 8.10.6 Thermoplastic temperature stability (°C).....: N/A 8.11 Mounting means for rack mounted equipment N/A 8.11.1 General N/A 8.11.2 N/A **Product Classification** 8.11.3 Mechanical strength test, variable N N/A 8.11.4 Mechanical strength test 250N, including end stops N/A 8.12 Telescoping or rod antennas..... N/A Button/Ball diameter (mm).....:

9		THERMAL BURN INJURY		
9.	.2	Thermal energy source classifications TS1: accessible parts	Р	
9.	.3	Safeguard against thermal energy sources	N/A	
9.	.4	Requirements for safeguards	N/A	
9.	.4.1	Equipment safeguard	N/A	
9.	4.2	Instructional safeguard	N/A	
NUp.		when the start of	por An	

10	RADIATION		Р
10.2	Radiation energy source classification		Р
10.2.1	General classification	RS1	P er
10.3	Protection against laser radiation	No laser radiation	N/A
otek Ar	Laser radiation that exists equipment:	hotek Anboter Ano	_
wotek	Normal, abnormal, single-fault	And hotek Anboten Anbo	N/A
Lotek.	Instructional safeguard	k Lotek Anbolek An	_
Ano	Tool:	anbotek	_
10.4 Marbo	Protection against visible, infrared, and UV radiation	Anbotek	N/A
10.4.1	General	hor Ann Ann	N/A
10.4.1.a)	RS3 for Ordinary and instructed persons:	Antek Anboten Anbo	N/A
10.4.1.b)	RS3 accessible to a skilled person	Ann wotek anbotek Ant	N/A
Anbotek	Personal safeguard (PPE) instructional safeguard	otek Anbotek Anbotek	_
10.4.1.c)	Equipment visible, IR, UV does not exceed RS1.:	hotek Anboten And	N/A
10.4.1.d)	Normal, abnormal, single-fault conditions:	hotek Anbotek Anbo	N/A
10.4.1.e)	Enclosure material employed as safeguard is opaque	Anbotek Anbotek Anbo	N/A

Shenzhen Anbotek Compliance Laboratory Limited

Anbote

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

Product Safety Page 20 of 65 Report No. 18220WC10093102S IEC 62368-1 Result - Remark Verdict Clause Requirement + Test 10.4.1.f) UV attenuation N/A 10.4.1.g) Materials resistant to degradation UV N/A 10.4.1.h) Enclosure containment of optical radiation.....: N/A Exempt Group under normal operating 10.4.1.i) N/A conditions 10.4.2 Instructional safeguard: N/A 10.5 Protection against x-radiation N/A 10.5.1 X- radiation energy source that exists equipment: N/A Normal, abnormal, single fault conditions N/A Equipment safeguards.....: N/A N/A Instructional safeguard for skilled person: 10.5.3 Most unfavourable supply voltage to give maximum radiation Abnormal and single-fault condition: N/A Maximum radiation (pA/kg) N/A 10.6 Protection against acoustic energy sources N/A 10.6.1 General N/A 10.6.2 Classification N/A Acoustic output, dB(A).....: N/A Output voltage, unweighted r.m.s...... N/A Protection of persons 10.6.4 N/A N/A Instructional safeguards: Equipment safeguard prevent ordinary person to RS2..... Means to actively inform user of increase sound pressure.....: Equipment safeguard prevent ordinary person to RS2..... 10.6.5 Requirements for listening devices (headphones, N/A earphones, etc.) 10.6.5.1 Corded passive listening devices with analog N/A input Input voltage with 94 dB(A) LAeg acoustic pressure output.....: 10.6.5.2 Corded listening devices with digital input N/A Maximum dB(A).....: 10.6.5.3 Cordless listening device N/A Maximum dB(A).....

Shenzhen Anbotek Compliance Laboratory Limited

Anbotek



Product Safety
Page 21 of 65
Report No. 18220WC10093102S
IEC 62368-1

Anbote

Clause	Requirement + Test	Result - Remark	Verdict
1001°	And Maken Andre Mark	abole Alter	det an

В	NORMAL OPERATING CONDITION TESTS, ABI CONDITION TESTS AND SINGLE FAULT COND		AnbPek
B.2	Normal Operating Conditions	unboi An cotek amboten	PP
B.2.1	General requirements	(See summary of testing & appended test tables)	P
Anbotek	Audio Amplifiers and equipment with audio amplifiers		N/A
B.2.3	Supply voltage and tolerances	(See appended table B.2.5)	AUN-B
B.2.5 Martin	Input test:	(See appended table B.2.5)	Ro
B.3	Simulated abnormal operating conditions	abotek Anbore And wotek	N/A
B.3.1	General requirements:	20	N/A
B.3.2	Covering of ventilation openings	Anto	N/A
B.3.3	D.C. mains polarity test	k wotak anbor A	N/A
B.3.4	Setting of voltage selector	No such voltage selector.	N/A
B.3.5	Maximum load at output terminals	No such terminals	N/A
B.3.6	Reverse battery polarity	No battery replaced by ordinary person	N/A
B.3.7	Abnormal operating conditions as specified in Clause E.2.	Aun -tek rapo	N/A
B.3.8	Safeguards functional during and after abnormal operating conditions		N/A
B.4	Simulated single fault conditions	hbo. A hotek Anbote.	PULE
B.4.2	Temperature controlling device open or short- circuited	Anbotek Anbotek Anbotek	N/A
B.4.3	Motor tests	subotek Anborn An	N/A
B.4.3.1	Motor blocked or rotor locked increasing the internal ambient temperature	ok Anbotek Anboien An	N/A
B.4.4	Short circuit of functional insulation	hotek	Ante
B.4.4.1	Short circuit of clearances for functional insulation	(See appended table B.4)	Ro
B.4.4.2	Short circuit of creepage distances for functional insulation	(See appended table B.4)	P
B.4.4.3	Short circuit of functional insulation on coated printed boards	Anbotek Anbotek Ant	N/A
B.4.5	Short circuit and interruption of electrodes in tubes and semiconductors	(See appended table B.4)	AnbeRak
B.4.6	Short circuit or disconnect of passive components	(See appended table B.4)	PP
B.4.7	Continuous operation of components	anboten Anbor k sote	N/A

Shenzhen Anbotek Compliance Laboratory Limited

Product Safety

 Page 22 of 65
 Report No. 18220WC10093102S

 IEC 62368-1
 Verdict

 Clause
 Requirement + Test
 Result - Remark
 Verdict

 B.4.8
 Class 1 and Class 2 energy sources within limits during and after single fault conditions
 P

 B.4.9
 Battery charging under single fault conditions ... :
 N/A

С	UV RADIATION					
C.1	Protection of materials in equipment from UV No UV radiation within the EUT. radiation	N/A				
C.1.2	Requirements	N/A				
C.1.3	Test method	N/A				
C.2	UV light conditioning test	N/A				
C.2.1	Test apparatus	N/A				
C.2.2	Mounting of test samples	N/A M				
C.2.3	Carbon-arc light-exposure apparatus	N/A				
C.2.4	Xenon-arc light exposure apparatus	N/A				

D	TEST GENERATORS				N/A
D.1	Impulse test generators	Annotek	Anbotek	Anbo	N/A
D.2	Antenna interface test generator	PUP	_tek	~ apo	N/A
D.3	Electronic pulse generator				N/A

E	TEST CONDITIONS FOR EQUIPMENT CONTAINING AUDIO AMPLIFIERS			
E.1 Anbo	Audio amplifier normal operating conditions	(See appended table B.2.5)	N/A	
botek A	Audio signal voltage (V):	Anbotek Anbote An		
abotek	Rated load impedance (Ω):	Anborek Anboro Ant		
E.2	Audio amplifier abnormal operating conditions	at botek Anbote An	N/A	

F	EQUIPMENT MARKINGS, INSTRUCTIONS, AND INSTRUCTIONAL SAFEGUARDS			
F.1	General requirements	itek anboten	P	
joter p	Instructions – Language	English and German checked		
F.2	Letter symbols and graphical symbols	Amboter Ambo	o ^{tek} P I	
F.2.1	Letter symbols according to IEC60027-1	K Anbotek Anbo	oboteP	
F.2.2	Graphic symbols IEC, ISO or manufacturer specific	otek Anbotek Anbo	Anb Pak	
F.3	Equipment markings	Anbotek Anbotek Anbotek	PP	
F.3.1	Equipment marking locations	Located on the external enclosure surface	Panb	

Shenzhen Anbotek Compliance Laboratory Limited

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

Product Safety Report No. 18220WC10093102S Page 23 of 65 IEC 62368-1 Result - Remark Verdict Clause Requirement + Test F.3.2 Equipment identification markings Р F.3.2.1 Manufacturer identification See label F.3.2.2 Model identification See label F.3.3 Equipment rating markings See label Р F.3.3.1 Equipment with direct connection to mains N/A F.3.3.2 Equipment without direct connection to mains Р F.3.3.3 See label Nature of supply voltage F.3.3.4 Rated voltage See label F.3.3.4 Rated frequency: F.3.3.6 See label Rated current or rated power F.3.3.7 Equipment with multiple supply connections No multiple supply connection. N/A F.3.4 N/A Voltage setting device No such device. F.3.5 Terminals and operating devices N/A F.3.5.1 Mains appliance outlet and socket-outlet No mains appliance outlet. N/A markings.... F.3.5.2 Switch position identification marking: Not such switch. N/A F.3.5.3 Replacement fuse identification and rating N/A markings F.3.5.4 N/A Replacement battery identification marking : F.3.5.5 Terminal marking location N/A F.3.6 Equipment markings related to equipment N/A classification F.3.6.1 Class I Equipment N/A F.3.6.1.1 N/A Protective earthing conductor terminal F.3.6.1.2 Neutral conductor terminal N/A F.3.6.1.3 Protective bonding conductor terminals N/A F.3.6.2 Class II equipment (IEC60417-5172) N/A F.3.6.2.1 Class II equipment with or without functional earth N/A F.3.6.2.2 Class II equipment with functional earth terminal N/A marking F.3.7 Equipment IP rating marking: IP20 F.3.8 External power supply output marking N/A F.3.9 Durability, legibility and permanence of marking P F.3.10 Test for permanence of markings Ρ F.4 Instructions Р a) Equipment for use in locations where children N/A

Shenzhen Anbotek Compliance Laboratory Limited

not likely to be present - marking

Anbotek

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

Product Safety

Anbote

Report No. 18220WC10093102S Page 24 of 65 IEC 62368-1 Clause Requirement + Test Result - Remark Verdict Р b) Instructions given for installation or initial use N/A c) Equipment intended to be fastened in place N/A d) Equipment intended for use only in restricted Not used in restricted access area. access area e) Audio equipment terminals classified as ES3 N/A and other equipment with terminals marked in accordance F.3.6.1 f) Protective earthing employed as safeguard N/A g) Protective earthing conductor current exceeding N/A ES2 limits h) Symbols used on equipment Р i) Permanently connected equipment not provided N/A with all-pole mains switch j) Replaceable components or modules providing N/A safeguard function F.5 N/A Instructional safeguards Where "instructional safeguard" is referenced in N/A the test report it specifies the required elements, location of marking and/or instruction

G	COMPONENTS		Р	
G.1 hoten	Switches		N/A	
G.1.1 0000	General requirements	-0* P*	N/A	
G.1.2	Ratings, endurance, spacing, maximum load	otek Anbotek Anbo	N/A	Ne
G.2	Relays	Amb stek anbotek Anbot	N/A	
G.2.1	General requirements	Anbo tek photek Anbol	N/A	
G.2.2	Overload test	Anbo ek potek An	N/A	P
G.2.3	Relay controlling connectors supply power	ak Anbor Anborek	N/A	
G.2.4	Mains relay, modified as stated in G.2	A. hotek	N/A	
G.3	Protection Devices	k potek	N/A	er
G.3.1	Thermal cut-offs	No thermal cut-off used.	N/A	100
G.3.1.1a) &b)	Thermal cut-outs separately approved according to IEC 60730 with conditions indicated in a) & b)	Anbotek Anbotek Ant	over N/A	A
G.3.1.1c)	Thermal cut-outs tested as part of the equipment as indicated in c)	tek potek Anbotek	N/A	
G.3.1.2	Thermal cut-off connections maintained and secure	nbotek Anbotek Anbotek	N/A	-Ve
G.3.2	Thermal links	unbotek Anbou ek store	N/A	20
G.3.2.1a)	Thermal links separately tested with IEC 60691	No thermal link used.	N/A	

Shenzhen Anbotek Compliance Laboratory Limited

nbotek Product Safety Page 25 of 65 Report No. 18220WC10093102S IEC 62368-1 Result - Remark Verdict Clause Requirement + Test G.3.2.1b) Thermal links tested as part of the equipment N/A Aging hours (H): Single Fault Condition Test Voltage (V) and Insulation Resistance (Ω). : G.3.3 **PTC** Thermistors N/A G.3.4 Overcurrent protection devices N/A G.3.5 Safeguards components not mentioned in G.3.1 to G.3.5 N/A G.3.5.1 Non-resettable devices suitably rated and N/A marking provided Single faults conditions.....: G.3.5.2 N/A G.4 Connectors N/A G.4.1 Spacings Not directly connected to mains N/A G.4.2 Mains connector configuration: N/A G.4.3 N/A Plug is shaped that insertion into mains socketoutlets or appliance coupler is unlikely G.5 Wound Components N/A G.5.1 Wire insulation in wound components.....: : N/A G.5.1.2 a) Two wires in contact inside wound component, N/A angle between 45° and 90° G.5.1.2 b) Construction subject to routine testing N/A G.5.2 N/A Endurance test on wound components G.5.2.1 General test requirements N/A G.5.2.2 N/A Heat run test Time (s) Temperature (°C) G.5.2.3 Wound Components supplied by mains N/A G.5.3 Transformers N/A G.5.3.1 Requirements applied (IEC61204-7, IEC61558-N/A 1/-2, and/or IEC62368-1): Position.....: Method of protection: G.5.3.2 Insulation N/A Protection from displacement of windings N/A G.5.3.3 Overload test N/A G.5.3.3.1 Test conditions N/A G.5.3.3.2 Winding Temperatures testing in the unit

Shenzhen Anbotek Compliance Laboratory Limited

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

Product Safety Report No. 18220WC10093102S Page 26 of 65 IEC 62368-1 Requirement + Test Result - Remark Verdict Clause G.5.3.3.3 Winding Temperatures - Alternative test method N/A G.5.4 N/A Motors G.5.4.1 General requirements N/A Position G.5.4.2 Test conditions N/A G.5.4.3 Running overload test N/A G.5.4.4 Locked-rotor overload test N/A Test duration (days) G.5.4.5 Running overload test for d.c. motors in N/A secondary circuits G.5.4.5.2 Tested in the unit N/A Electric strength test (V)..... G.5.4.5.3 Tested on the Bench - Alternative test method; N/A test time (h) Electric strength test (V) G.5.4.6 Locked-rotor overload test for d.c. motors in N/A secondary circuits G.5.4.6.2 Tested in the unit N/A Maximum Temperature N/A Electric strength test (V) N/A G.5.4.6.3 Tested on the bench - Alternative test method; N/A test time (h) Electric strength test (V): N/A G.5.4.7 Motors with capacitors N/A G.5.4.8 Three-phase motors N/A G.5.4.9 Series motors N/A Operating voltage: G.6 Wire Insulation N/A G.6.1 General N/A G.6.2 N/A Solvent-based enamel wiring insulation G.7 Mains supply cords N/A G.7.1 General requirements Not directly connected to mains N/A Туре..... Rated current (A)..... Cross-sectional area (mm²), (AWG): :

Shenzhen Anbotek Compliance Laboratory Limited

Compliance and test method

G.7.2

Anbotek

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com Hotline 400-003-0500 www.anbotek.com

N/A

 Product Safety
 Page 27 of 65

 IEC 62368-1

 Clause
 Requirement + Test

Anbote

7 of 65 Report No. 18220WC10093102S

Clause	Requirement + Test	Result - Remark	Verdic
in the K	anbotek Anboy tu totek Anboyer	Anti tek inbotek Ant	0)
G.7.3	Cord anchorages and strain relief for non- detachable power supply cords	anbor Anborek	N/A
G.7.3.2	Cord strain relief	nek notek Anborr	N/A
G.7.3.2.1	Requirements	unbo tek unbotek Anbort	N/A
sek h	Strain relief test force (N):	Anbo kek nbotek Anboro	
G.7.3.2.2	Strain relief mechanism failure	5.0° (***	N/A
G.7.3.2.3	Cord sheath or jacket position, distance (mm):		
G.7.3.2.4	Strain relief comprised of polymeric material	pro pro se voter	N/A
G.7.4 pr/2011	Cord Entry:	nbole Alexantek	N/A
G.7.5	Non-detachable cord bend protection	botek Anboren Anbo	N/A
G.7.5.1	Requirements	No.	N/A
G.7.5.2	Mass (g):	Pur	_
Americk	Diameter (m):	i wotek anbor A	
Anbo	Temperature (°C):	dian Anno dek Anbotek	
G.7.6	Supply wiring space	hotek Alibo stek anbotek	N/A
G.7.6.2	Stranded wire	Anbolet Anbo tek nbotek	N/A
G.7.6.2.1	Test with 8 mm strand	anboten Anbor tek stoo	N/A
G.8	Varistors		N/A
G.8.1	General requirements	No varistors used.	N/A
G.8.2	Safeguard against shock		N/A
G.8.3	Safeguard against fire	novek abotek Anbolu	N/A
G.8.3.2	Varistor overload test:	Anbonek porek Anborek	N/A
G.8.3.3	Temporary overvoltage	Anbour Anbor	N/A
G.9	Integrated Circuit (IC) Current Limiters	Anborn K notek An	N/A
G.9.1 a)	Manufacturer defines limit at max. 5A.	No such IC used.	N/A
G.9.1 b)	Limiters do not have manual operator or reset	Aller	N/A
G.9.1 c)	Supply source does not exceed 250 VA:	And	_
G.9.1 d)	IC limiter output current (max. 5A):	HOLE DIVISION ANDO	_
G.9.1 e)	Manufacturers' defined drift	Antek Anbotek Anbot	_
G.9.2	Test Program 1	And Antek Anter Ant	N/A
G.9.3	Test Program 2	Anho tek sobotek	N/A
G.9.4	Test Program 3	otek Anbo. Ar.	N/A
G.10	Resistors	anboter Anbou ak ubotek	N/A
G.10.1	General requirements	Anbotek Anbote Alle hote	N/A
G.10.2	Resistor test	hotek Anbote, Anb	N/A

Shenzhen Anbotek Compliance Laboratory Limited

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

 Product Safety
 Page 28 of 65
 Report No. 1

 IEC 62368-1
 IEC 62368-1
 IEC 62368-1

 Clause
 Requirement + Test
 Result - Remark

 G.10.3
 Test for resistors serving as safeguards between the mains and an external circuit consisting of a coaxial cable
 Image 28 of 65

Anbotek

G.10.3.1 General requirements N/A G.10.3.2 N/A Voltage surge test G.10.3.3 Impulse test N/A G.11 Capacitor and RC units N/A N/A G.11.1 General requirements No such components used G.11.2 Conditioning of capacitors and RC units N/A G.11.3 Rules for selecting capacitors N/A G.12 Optocouplers N/A Optocouplers comply with IEC 60747-5-5:2007 N/A Spacing or Electric Strength Test (specify option and test results)..... Type test voltage Vini Routine test voltage, Vini,b G.13 P Printed boards G.13.1 General requirements Ρ G.13.2 Uncoated printed boards Р G.13.3 Coated printed boards N/A G.13.4 Insulation between conductors on the same inner N/A surface Compliance with cemented joint requirements (Specify construction).....: G.13.5 Insulation between conductors on different N/A surfaces Distance through insulation N/A Number of insulation layers (pcs) G.13.6 Tests on coated printed boards N/A G.13.6.1 Sample preparation and preliminary inspection N/A G.13.6.2a) Thermal conditioning N/A G.13.6.2b) Electric strength test N/A G.13.6.2c) N/A Abrasion resistance test G.14 Coating on components terminals N/A G.14.1 N/A Requirements G.15 Liquid filled components N/A G.15.1 General requirements N/A

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com Hotline 400-003-0500 www.anbotek.com

Report No. 18220WC10093102S

Verdict

N/A

Anbotek Product Safety

Ē

Page 29 of 65

Report No. 18220WC10093102S

Clause	Requirement + Test	Result - Remark	Verdict
n.	anboten Anbo	An Ant Ant	
G.15.2	Requirements	Anot k potek	N/A
G.15.3	Compliance and test methods	on Am ok hotek	N/A
G.15.3.1	Hydrostatic pressure test	nbotek Anbort Attractek	N/A
G.15.3.2	Creep resistance test	abotek Anbote Ant	N/A
G.15.3.3	Tubing and fittings compatibility test	hotek anboten Ant	N/A
G.15.3.4	Vibration test		N/A
G.15.3.5	Thermal cycling test		N/A
G.15.3.6	Force test	or Au otek anboten	N/A
G.15.4	Compliance	ntek obotek	N/A
G.16	IC including capacitor discharge function (ICX)	boten Anbo boten	N/A
a) ^{ren}	Humidity treatment in accordance with sc5.4.8 – 120 hours	Antoc	N/A
D) nu Anbotek	Impulse test using circuit 2 with Uc = to transient voltage	tek Anbotek Anbor A	N/A
C1) Arbott	Application of ac voltage at 110% of rated voltage for 2.5 minutes	hotek Anboten Anborek	N/A
C2)	Test voltage	Anboro K Anotek Anborek	
D1)	10,000 cycles on and off using capacitor with smallest capacitance resistor with largest	Anbore Aner tek nobo	N/A
Anbotek	resistance specified by manufacturer		
D2)			—
Anbotek	resistance specified by manufacturer	Da. W. M. Mole.	_
) ()	resistance specified by manufacturer Capacitance	bo. A. Anbotek Anbote.	

н	CRITERIA FOR TELEPHONE RINGING SIGNAL	6	N/A
H.1	General	An hotek Anboten And	N/A
H.2	Method A	Ante Antotek Antotek An	N/A
H.3	Method B	Anbo Anbotek	N/A
H.3.1	Ringing signal	hotek	N/A
H.3.1.1	Frequency (Hz)	tek potek	
H.3.1.2	Voltage (V)	Anbor An het abote	
H.3.1.3	Cadence; time (s) and voltage (V)	Anbotek Anboi ek at	
H.3.1.4	Single fault current (mA):	k unbotek Anbor Ale	
H.3.2	Tripping device and monitoring voltage	stek unbotek Anbort	N/A
H.3.2.1	Conditions for use of a tripping device or a monitoring voltage complied with	Anbotek Anbotek Anbotek	N/A
H.3.2.2	Tripping device	Anbotek Anbo tek prote	N/A
H.3.2.3	Monitoring voltage (V)	Anborek Anbor All	

Shenzhen Anbotek Compliance Laboratory Limited

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

Anbote	and the second s						
Product Safe	botek Anbo	tek Anbotek	Page IEC 62	30 of 65 2 368-1	Repor	<u>t No. 18220W</u>	C10093102S
Clause	Anbotek Ar	Requirement + 1	Test	potok Ant	Result - R	emark	Verdict

3Y THE DOC

Ш

ORIGINAL CAN ONLY

JMENT WAS AV

GENERATING THE DOCUMENT

AT THE

TOOL ON 2022-02-17.

PRODUCTIP REDACT

WAS REDACTED

THIS DOCUMENT

J	INSULATED WINDING WIRES FOR USE WITHO	UT INTERLEAVED INSULATION	N/A
L Anboth	General requirements	Lotek Anboten Anbo	N/A
iek . d	ootek Anborek Anborek	And tek subotek Anbo	- Per
к	SAFETY INTERLOCKS		N/A
K.1	General requirements	No safety interlocks inside the EUT	N/A
K.2	Components of safety interlock safeguard mechanism		N/A
K.3	Inadvertent change of operating mode		N/A
K.4	Interlock safeguard override		N/A
K.5	Fail-safe		N/A
	Compliance:		N/A
K.6	Mechanically operated safety interlocks		N/A
K.6.1	Endurance requirement		N/A
K.6.2	Compliance and Test method		N/A
K.7	Interlock circuit isolation		N/A
K.7.1	Separation distance for contact gaps & interlock circuit elements (type and circuit location):		N/A
K.7.2	Overload test, Current (A)		N/A
K.7.3	Endurance test		N/A
K.7.4	Electric strength test		N/A

L	DISCONNECT DEVICES		N/A
L.1	General requirements		N/A
L.2	Permanently connected equipment		N/A
L.3	Parts that remain energized		N/A
L.4	Single phase equipment		N/A
L.5	Three-phase equipment		N/A
L.6	Switches as disconnect devices		N/A
L.7	Plugs as disconnect devices		N/A
L.8	Multiple power sources		N/A
		194	54

202	No. P	do 194	1001
м	EQUIPMENT CONTAINING BATTERIES AND TH	IEIR PROTECTION CIRCUITS	N/A
M.1	General requirements	No such battery used	N/A
M.2	Safety of batteries and their cells		N/A
M.2.1	Requirements		N/A

Shenzhen Anbotek Compliance Laboratory Limited

Product Safety Page 31 of 65 Report No. 18220WC10093102S IEC 62368-1 Clause Result - Remark Verdict Requirement + Test N/A M.2.2 Compliance and test method (identify method) ...: N/A M.3 Protection circuits N/A M.3.1 Requirements N/A M.3.2 Tests N/A Overcharging of a rechargeable battery - Unintentional charging of a non-rechargeable N/A battery - Reverse charging of a rechargeable battery N/A N/A - Excessive discharging rate for any battery N/A M.3.3 Compliance N/A M.4 Additional safeguards for equipment containing secondary lithium battery N/A M.4.1 General N/A M.4.2 Charging safeguards N/A M.4.2.1 Charging operating limits M.4.2.2a) Charging voltage, current and temperature: Single faults in charging circuitry M.4.2.2 b) N/A M.4.3 Fire Enclosure N/A M.4.4 Endurance of equipment containing a secondary lithium battery N/A M.4.4.2 Preparation N/A M.4.4.3 Drop and charge/discharge function tests N/A Drop N/A Charge N/A Discharge N/A M.4.4.4 Charge-discharge cycle test N/A M.4.4.5 Result of charge-discharge cycle test M.5 N/A Risk of burn due to short circuit during carrying M.5.1 Requirement N/A M.5.2 Compliance and Test Method (Test of P.2.3) N/A M.6 Prevention of short circuits and protection from N/A other effects of electric current M.6.1 Short circuits N/A M.6.1.1 General requirements N/A M.6.1.2 Test method to simulate an internal fault N/A M.6.1.3 Compliance (Specify M.6.1.2 or alternative N/A method):

Shenzhen Anbotek Compliance Laboratory Limited

bote

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

Product Safety Page 32 of 65 Report No. 18220WC10093102S IEC 62368-1 Clause Requirement + Test Result - Remark Verdict M.6.2 Leakage current (mA): N/A M.7 N/A Risk of explosion from lead acid and NiCd batteries M.7.1 N/A Ventilation preventing explosive gas concentration M.7.2 Compliance and test method N/A M.8 Protection against internal ignition from external N/A spark sources of lead acid batteries N/A M.8.1 General requirements M.8.2 Test method N/A M.8.2.1 General requirements N/A M.8.2.2 Estimation of hypothetical volume Vz (m³/s).....: M.8.2.3 Correction factors

Calculation of distance *d* (mm):

Instructions to prevent reasonably foreseeable

misuse (Determination of compliance: inspection, data review; or abnormal testing):

Preventing electrolyte spillage

Protection from electrolyte spillage

Tray for preventing electrolyte spillage

N	ELECTROCHEMICAL POTENTIALS	N/A
ò	Metal(s) used:	
37.	wole bill tek about the wole bill	

0	MEASUREMENT OF CREEPAGE DISTANCES A	ND CLEARANCES	N/A
	Figures O.1 to O.20 of this Annex applied:		—
~10 m			

Ρ	SAFEGUARDS AGAINST ENTRY OF FOREIGN OBJECTS AND SPILLAGE OF INTERNAL LIQUIDS		
P.1	General requirements	No opening	Р
P.2.2	Safeguards against entry of foreign object	No safeguards requirement.	N/A
	Location and Dimensions (mm):		
P.2.3	Safeguard against the consequences of entry of foreign object		N/A
P.2.3.1	Safeguards against the entry of a foreign object		N/A
	Openings in transportable equipment		N/A
	Transportable equipment with metalized plastic parts:		N/A

Shenzhen Anbotek Compliance Laboratory Limited

M.8.2.4

M.9

M.9.1

M.9.2

M.10

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com Hotline 400-003-0500 www.anbotek.com

N/A

N/A

N/A

N/A

Product Safety Report No. 18220WC10093102S Page 33 of 65 IEC 62368-1 Clause Requirement + Test Result - Remark P.2.3.2 Openings in transportable equipment in relation to metallized parts of a barrier or enclosure (identification of supplementary safeguard): P.3 Safeguards against spillage of internal liquids P.3.1 General requirements P.3.2 Determination of spillage consequences

	P.3.3	Spillage safeguards	N/A
	P.3.4	Safeguards effectiveness	N/A
6	P.4	Metallized coatings and adhesive securing parts	N/A
	P.4.2 a)	Conditioning testing	N/A
10		Tc (°C):	_
0		Tr (°C):	
		Ta (°C)	
	P.4.2 b)	Abrasion testing	N/A
eV	P.4.2 c)	Mechanical strength testing:	N/A

Q	CIRCUITS INTENDED FOR INTERCONNECTION WITH BUILDING WIRIN	NG N/A
Q.1	Limited power sources	N/A
Q.1.1 a)	Inherently limited output	N/A
Q.1.1 b)	Impedance limited output	N/A
	- Regulating network limited output under normal operating and simulated single fault condition	N/A
Q.1.1 c)	Overcurrent protective device limited output	N/A
Q.1.1 d)	IC current limiter complying with G.9	N/A
Q.1.2	Compliance and test method	N/A
Q.2	Test for external circuits – paired conductor cable	N/A
	Maximum output current (A)	_
	Current limiting method:	

R	LIMITED SHORT CIRCUIT TEST			
R.1	General requirements	N/A		
R.2	Determination of the overcurrent protective device and circuit	N/A		
R.3	Test method Supply voltage (V) and short-circuit current (A)).	N/A		

Shenzhen Anbotek Compliance Laboratory Limited

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

Hotline 400-003-0500 ww.anbotek.com

Verdict

N/A

N/A

N/A

N/A

Product Safety

A

BY THE DOCUN

GINAL CAN ONLY BE MADE

AL DOCUMENT WAS AVAILABLE

GENERATING THE DOCUMENT THE ORIGIN

TOOL ON 2022-02-17. AT THE

WAS REDACTED WITH THE PRODUCTIP

THIS DOCUMENT

Clause	Requirement + Test	Result - Remark	Verdic
nbo'	and	Anbor At abotek An	o ^{te}
S	TESTS FOR RESISTANCE TO HEAT AND FIRE		N/A
S.1	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material:		
	Wall thickness (mm):		
	Conditioning (°C):		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	- Material not consumed completely		N/A
	- Material extinguishes within 30s		N/A
	- No burning of layer or wrapping tissue		N/A
S.2	Flammability test for fire enclosure and fire barrier integrity		N/A
	Samples, material:		
	Wall thickness (mm):		
	Conditioning (°C)		
	Test flame according to IEC 60695-11-5 with conditions as set out		N/A
	Test specimen does not show any additional hole		N/A
S.3	Flammability test for the bottom of a fire enclosure		N/A
	Samples, material:		—
	Wall thickness (mm):		
	Cheesecloth did not ignite		N/A
S.4	Flammability classification of materials		N/A
S.5	Flammability test for fire enclosures and fire barrier materials of equipment where the steady state power does not exceed 4 000 W		N/A
	Samples, material		
	Wall thickness (mm)		
	Conditioning (test condition), (°C):		—
	Test flame according to IEC 60695-11-20 with conditions as set out		N/A
	After every test specimen was not consumed completely		N/A
	After fifth flame application, flame extinguished within 1 min		N/A

Shenzhen Anbotek Compliance Laboratory Limited

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

Product Safety Page 35 of 65

An

bote

IEC 62368-1

Report No. 18220WC10093102S

Clause	Requirement + Test	Result - Remark	Verdict				
, ek	spoter Anbo y sotek Anboio	Ann ek aboten Ant	34				
T	MECHANICAL STRENGTH TESTS						
T.1	General requirements		Р				
T.2	Steady force test, 10 N		N/A				
Т.3	Steady force test, 30 N		N/A				
T.4	Steady force test, 100 N		N/A				
T.5	Steady force test, 250 N	(See appended table T.5)	Р				
Т.6	Enclosure impact test		N/A				
	Fall test		N/A				
	Swing test		N/A				
Т.7	Drop test	(See appended table T.7)	Р				
T.8	Stress relief test	(See appended table T.8)	Р				
Т.9	Impact Test (glass)	No glass used	N/A				
T.9.1	General requirements		N/A				
T.9.2	Impact test and compliance		N/A				
	Impact energy (J)						
	Height (m):						
T.10	Glass fragmentation test		N/A				
T.11	Test for telescoping or rod antennas		N/A				
	Torque value (Nm)						

U	MECHANICAL STRENGTH OF CATHODE RAY TUBES (CRT) AND PROTECTION AGAINST THE EFECTS OF IMPLOSION		
U.1	General requirements	N/A	
U.2	Compliance and test method for non-intrinsically protected CRTs	N/A	
U.3	Protective Screen:	N/A	
elt is	borne and a second s	Am k noter	

V	DETERMINATION OF ACCESSIBLE PARTS (FINGERS, PROBES AND WEDGES)					
V.1	Accessible parts of equipment	Р				
V.2	Accessible part criterion	Р				
~97		- 6V				

Shenzhen Anbotek Compliance Laboratory Limited

L S



Anbote						
Product Safet	hotek Anbois	k Anbotek	Page 36 of 65	Re	port No. 18220V	VC10093102S
Clause	Anbotek Anb	Requirement + Tes	st Anbotok	Result	- Remark	Verdict

4.1.2	TABL	E: List of critical com	ponents	NOI- PIII	Anton	Pak
Object / part No.		Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Plastic enclos	sure	Formosa Chemicals & Fibre Corp Plastics DIV	AG15A1	HB, 60°C	UL 94	UL Ando
PCB	p.r	E-Top PCB Ltd	ETL-328D	V-0, 130°C	UL 94, UL 796	UL
(Alternative)	nbotek	JIANGMEN JIANGHAI JINGCHUANGDA ELECTRONIC CO LTD	JCD-1	V-0, 130°C	UL 94, UL 796	UL ^{AUS} Anbolek Stek
(Alternative)	Anbo	JIAXIN PRINTED CIRCUIT BOARD MFR	KS-02	V-0, 130°C	UL 94, UL 796	UL

Supplementary information:

1) an asterisk indicates a mark which assures the agreed level of surveillance.

Shenzhen Anbotek Compliance Laboratory Limited

LIS



_	nbote						
Anboi	roduct Safety	potek ni	unbolek Anbolek	Page 3	37 of 65 368-1	Report No. 18	220WC10093102S
PUL	Clause	Anbotek	Requirement +	Test	otek Anbo	Result - Remark	Verdict

BY THE DOCUMENT OWI

BE MADE

ORIGINAL CAN ONLY

ALSO.

WAS AVAILABL

DOCUMENT

TIME OF GENERATING THE DOCUMENT THE ORIGINAL

TOOL ON 2022-02-17. AT THE

WITH THE PRODUCTIP REDACTION

THIS DOCUMENT WAS REDACTED

4.8.5	otek Anbo	ithium coin/button cell batter	And	N/A	
(The follov	ving mechanica	al tests are conducted in the seq	juence noted.)		
4.8.4.2	TABLE: St	ress Relief test	abotek Anbote Att		
	Part	Material	Oven Temperature (°C)	Comments	
Anbote	- Anv stek	Mbotek		'	
4.8.4.3	TABLE: Ba	attery replacement test		—	
Battery pa	art no		Ann nboten Anbe	—	
Battery In	stallation/with	drawal	Battery Installation/Removal Cycle	Comments	
otek	Anbotek	Aupor	1	ibo. wit	
			2	Anboy P	
			Anton 3 ack allon	Anboro	
			Arthone M 4	Anone	
			ek nobolek 5 ^{nbol}	otek Anbote	
			6 Anbor A	botek - Anbr	
			tek storek 8 Anbour	hotek A	
			9	~ abotek A	
Anbotek	Anbotek Anbotek Anbotek	Anbotek Anbotek An Anbotek Anbotek	AND BUD'		
.8.4.4	TABLE: Dr	op test hotek Anborek	9		
~ dpo		op test Drop Distance	9	 Observations	
. 8.4.4 mpact Ar		-M WON PN	9 10	 Observations	
- apo		A WON DW	9 10 Drop No.	 Observations 	
~ dpo		A WON DW	9 10 Drop No. 1	 Observations	
- apo		Drop Distance 	9 10 Drop No. 1 2	 Observations 	
mpact Ar 1.8.4.5	hubbon	Drop Distance 	9 10 Drop No. 1 2	Observations Observations Comments	
mpact Ar 1.8.4.5	 TABLE: Im	Drop Distance pact	9 10 Drop No. 1 2 3	Annuarak	
mpact Ar	 TABLE: Im	Drop Distance 	9 10 Drop No. 1 2 3	Annorek - pr	
mpact Ar I.8.4.5 Impacts I.8.4.6	ea TABLE: Im per surface	Drop Distance 	9 10 Drop No. 1 2 3	Annorek - pr	

Shenzhen Anbotek Compliance Laboratory Limited



Clau	ISE hotek			A DOCO					
Anboi		Requiren	nent + Test	52368-1	Anbotek	sult - Rema	ark Anbo	Verdict	
	ek sho			Anborek	Pribotenc		jotet An	Verdict	
405	TADU	E: Lithium coin/b	And	hotek	Anbor		Inbotek	N/A	
4.8.5 т	est position	Lote Any	face tested		Force	M	Du	ration forc	
	cat position						applied (s)		
dek	p.i.	knboter	Ann-	botek	Anbo'	Anbote	+ unbot	- An	
Supple	mentary info	rmation:		- n Min	640 °	less:	2		
5.2	Tobler	Classification of	alastriaal anaray					P	
Pre	5. J	Classification of te Voltage and Cu	-70-	sources			der.	NOV-F	
5.2.2.2						Parameters			
	Supply Location (e.g.					U I		, 	
No.	Voltage	circuit designation)	Test conditio		(Vrms or Vpk)	(Apk or Arms)	Hz	ES Cla	
Anb	ole. P.U.		Normal	hi and	5.01Vrms	No P.	ofek-	Anbotek	
1	5VDC*	USB input terminal	Abnormal:	Ę	5.02Vrms		An	ES1	
10K	Anboter	And	Single fault: C4 S	SC	horek	Anbote	Ant	4	
5.2.2.3	- Capacitanc								
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Capac	Para citance, nF	umeters	lpk (V)	ES Class	
Þ.e.	Lotek p	nhoten Anb	Normal:					y.	
A	nthotek	Anbotek Anb	Abnormal:	k p.nb		potek	-Anbote.	Plum	
potek	Anbotek	Anbotek A	Single fault: SC/OC	otek p	Anbotek	Anbotek	Anboren	Anb ^c Nok Ar	
5.2.2.4	- Single Puls	es		T				_	
No.	Supply Voltage	Location (e.g. circuit designation)	Test conditions	Duration		meters pk (V)	lpk (mA)	ES Class	
₩-	nboter		Normal				Ann	bot	
otek	anbotek	-27*	Abnormal		- Meh	Anbois	ak pu		
	nbotek Anbotek Anbotek		Single fault – SC/OC	Arbotek Arbotek Anbo ek		otek Anbo	potek All		
5.2.2.5	- Repetitive I	Pulses							
No.	Supply	Location (e.g. circuit	Test conditions		Para	imeters		ES Clas	
NU.	Voltage	designation)		Off time (r	ms) Up	ok (V)	lpk (mA)	LOCIdS	

Shenzhen Anbotek Compliance Laboratory Limited

ORIGINAL CAN ONLY BE MADE AVAILABLE BY THE DOCUMENT OWNER.

THIS DOCUMENT WAS REDACTED WITH THE PRODUCTIP REDACTION TOOL ON 2022-02-17. AT THE TIME OF GENERATING THE DOCUMENT THE ORIGINAL DOCUMENT WAS AVAILABLE ALSO.

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

Abnormal

	nbote	- Alas						
P	roduct Safet	Anbo.		Page	39 of 65	Report	No. 18220WC1	10093102S
	otek pr	ibotek Anbo	Lek pin	IEC 62	2368-1	otek anbot	ek Anboi	ek pri
	Clause	Anbotek Ar	Requirement + T	est	poter An	Result - Re	emark	Verdict
	An	Anboten	AUD	potek	Aupor	Al. Hek	poter An	- alt
14-	Anbu	Antiotek	Single SC/OC	fault –	-hoten	-pinbo	Anbotek	Anborek
	Test Conditi	ons:	Pri wotek	Anboter	And	k potek	Anbor	pr. Lotek
0	Pla	Normal –						
2	oten An	Abnormal -						

Supplementary information: SC=Short Circuit, OC=Open Circuit * means that unit supplied by 5VDC power source.

9.6 TAI	BLE: Tempera	ture meas	urements	for wireles	ss power t	ransmitter	S	Р
Supply voltage (V)	:		5VD	С	unbotek			
Max. transmit power of tr	ansmitter (W)	:	5W	" ⁰⁰ "	er Pu	pr Aupo		
		eiver and contact					eceiver and at nce of 5 mm	
Foreign objects	Object (oC)	Ambient (oC)	Object (oC)	Ambient (oC)	Object (oC)	Ambient (oC)	Object (oC)	Ambient (oC)
Steel disc	29.2	25.4	35.1	25.5	31.8	25.6	44.4	25.4
Aliminium ring	28.3	25.2	43.2	25.3	43.2	25.7	48.4	25.4
Aluminium foil	25.4	24.3	36.3	25.0	35.1	25.5	30.5	25.6

Supplementary information:

he.	ak hore An	NOK.	NOPU P	N.	hore	Plu
5.4.1.4, 6.3.2, 9.0, B.2.6	TABLE: Thermal requirements					Panbi
Anbotek	Supply voltage (V):	5VDC *	k anbotek	-bupo.	set -	
Anbote	Ambient T _{min} (°C):	25.1		- Aup	KOK-	
K Anb	Ambient T _{max} (°C):	25.6		P	npo)	
otek p	Tma (°C):	40.0	10 ¹⁻	All. Her.	Anburntek	
Maximum i part/at:	measured temperature T of		T (°C)		Allowed T _{max} (°C)
PCB near	U1 Ant stek unbotek Anbr	44.5	stek - Anbot	- And	dek-	130
E-cap. C14	ter Anb otek Anbotek A	42.6	botek - An	poter A	no otek	105
L14 p	hboten Anbu otek Anbotek	43.5	botek	Anboten	Anu	130
	LED1 ^{net} Annual hotek	42.4	p.v.	Nor.	100	130

Shenzhen Anbotek Compliance Laboratory Limited

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

BY THE DC

THE ORIGINAL CAN ONLY BE MADE

DOCUMENT WAS AVAII

TOOL ON 2022-02-17. AT THE TIME OF GENERATING THE DOCUMENT

WAS REDACTED WITH THE PRODUCTIP REDACTION

THIS DOCUMENT

roduct Safety	r P3	Page 40 of	65	Re	port No. 18	3220WC100	93102S
otek Anbotek Anboi Ai	he ^k	EC 62368-	Anus	Hek A	nbotek	Pupor.	pi.
Clause Requirement	+ Test	Anbote	Ann	Result	- Remark	Anbo	Verdict
And tek inbotek Anbo	Jose K	Anbor	P	No.ex	abo ^{ter}	AUDO	
Input cable (internal)	Pure	43.4	oter	-Anbo		rek - Ant	80
Plastic enclosure inside near PCB	PC	42.7	nbor	P/	pri-	botek-	Ref.
Touch temperature clause 9.0	An	- otek	anbotek	Anbo	. ek	botek	Anbote
Plastic enclosure near PCB, outside (>1m	ins)	25.2	nbo'	ek pr	100' <u>-</u>	Al. botek	48*
USB input terminal surface (<1 s)	boten	25.4	1. ·	-otek	Pupo,	Pr. Teg	77#
Ambient		25.6					š
Supplementary information: D. * means that surfaces touched occasion E. # means surfaces touched in normal use			oeriods (>	1 s and <	10 s).		
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulat on class
-Anti-	bote	- AUN		otek	- nbo	Aupo	-dy-
Supplementary information:	Pro	otek a	nboten	Anbo	N	ootek A	bor
Anboin All All All	p.r.O.	N.	hotek	Anbon	100	Yek	aboter

5.4.1.10.2 TABLE: Vicat softening temperature of the	rmoplastics	And tek abotek	N/A
Penetration (mm):	otek Anbotek	Anbo, tek uppo	
Object/ Part No./Material	Manufacturer/t rademark	T softening (°C)	
- And stek Anborek Anbor An hotek			e¥-
Supplementary information:	abo.	p k woto.	Ant

5.4.1.10.3 TABLE: Ball p	essure test of thermoplastic	Sek Anbotek Anbo	N/A N/A
Allowed impression diamete	r (mm):	≤ 2 mm	politication provide a second
Object/Part No./Material	Manufacturer/trademark	Test temperature (°C)	Impression diameter (mm)
- potek p			Anboin k - An hotek
Supplementary information:	·		Anboro K Ant

5.4.2.2, 5.4.2.4 and	TABLE: Minimum Clearances/Creepage distance					Anbotek	Anbote	N/A	
5.4.3	anbotek Anbo							100 10	
	l) and creepage at/of/between:	Up (V)	U r.m.s. (V)	Frequency (kHz)#	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
Basic/supple	mentary insulation	abotek	Anbore	K Plus	stek an	poter.	Anbo	abotek	
otek anbr	otek Anbo	- botel	Aupu	- Aun	otek-	anbotek	Anbo	- obote	
Reinforced in	sulation	his	stek p	nbote A	hotek	Anbotek	Pupo	rek nat	

Shenzhen Anbotek Compliance Laboratory Limited

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

Anbotek	Anbotek								
Product Safety	Anbo.	hek Anbotel		41 of 65	Re	eport No	. 18220WC	C10093102	S
Clause	ibotek Ar	Requirement	u. p.	2368-1	Resul	t - Rema	irk Anb	Verdic	t
Anbotek	Anbotek	Anborek	Philotek	Anboten	Anbotek	K Popla	potek p	unborok	- 193
Supplementary	/ information:	Anbotek	An	anbor	b1	Let P	botek	Anbotek	<u>.</u>

	the thore All	noten Ano-	. As	bor Pri						
5.4.2.3	TABLE: Minimum Clearances distances using required withstand voltage N/A									
abotek	Overvoltage Category (OV):	Anbo	hotek Anbore	Anna vot						
hotek	Pollution Degree:			:						
Clearance	distanced between:	Required withstand voltage	Required cl (mm)	Measured cl (mm)						
Basic / su	pplementary insulation	- 1489	nbore	Arr. Lotek Anboten						
other P	hoten Ann hotek Anboten	And all	otek Enborer	Arn hotek Anbote						
Reinforce	d insulation			hotek Ant						
nbotek	Anboro			Annabotek						
Suppleme	ntary information:	boter Anu vek	abotek Anb	or An Lotek						

1. BI: basic insulation; SI: supplementary insulation; DI: double insulation; RI: reinforced insulation;

5.4.2.4	TABLE: Clearances ba	ised on electric streng	th test	N/A
Test voltag	e applied between:	Required cl (mm)	Test voltage (Kv) peak/ r.m.s. / d.c.	Breakdown Yes / No
Anbo wak	botek Anboro	Am. stek-		
Supplemen	tary information: Not used	the alternative method t	o determine the clearances	_

17	alt hore	Am	194	p~ F	for the	Plus
5.4.4.2,	TABLE: Distan	ce through insulation	on measurem	ents		N/A
5.4.4.5 c) 5.4.4.9	boten Anbu					unbotok Anbo
Distance the di at/of:	rough insulation	Peak voltage (V)	Frequency (Hz)	Material	Required DTI (mm)	DTI (mm)
- An botek	P.	× 0b.	.V		Anboten	Ant-
Supplement	ary information:				Anbote	And

5.4.9	TABLE: Electric strength tests	hotek Anbor	An. Me Al	N/A
Test volta	age applied between:	Voltage shape (AC, DC)	Test voltage (V)	Breakdown Yes / No
Function	al: Anboten Anbo	otek Anbor A	in sotek anboten	Anbo
Ano	otek onbotek Anbotek	abotek Anboten	And otek-	ek pabo
Basic/su	oplementary:	hotek Anboter	And stek	potek Anbor
oter	Anbou tek anbotek Anbote k	Ann hotek Anboter	Anbo	abotek - Anbot
Reinforce	ed: Anbornet Anbornet	Ante sotek Anbo	Her Anbo	abotek Ant

Shenzhen Anbotek Compliance Laboratory Limited

DRIGINAL CAN

MENT WAS

VAS REDACTED

L S

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

Anbotek Product Safety Page 42 of 65 Report No. 18220WC10093102S IEC 62368-1 Clause Requirement + Test Result - Remark Verdict 5.4.9 **TABLE: Electric strength tests** N/A Test voltage applied between: Voltage shape Test voltage (V) Breakdown (AC, DC) Yes / No ---Routine Tests: 5. ------

Supplementary information:

5.5.2.2	TABLE: St	ored discharg	ge on capacitor	S		botek	N/A
Supply Volt	age (V), Hz	Test Location	Operating Condition (N, S)	Switch position On or off	Measured Voltage (after 2 seconds)	ES Clas	sification
Anbor	An notek	D3-		60 ²	·	- A1	te oter
Supplemen	tary informat	ion:	Anboter	Ann-wotek	Anbotok Anbo	- Al	abotek

X-capacitors installed for testing are: --

bleeding resistor rating: --

ICX:

Notes:

A. Test Location:

Phase to Neutral; Phase to Phase; Phase to Earth; and/or Neutral to Earth

B. Operating condition abbreviations:

N – Normal operating condition (e.g., normal operation, or open fuse); S –Single fault condition

OC- Opened circuit

(A) (min) (V) (N/A
	stance (Ω)
Anbolek A con Anbole P	m otek

Shenzhen Anbotek Compliance Laboratory Limited



Page 43 of 65

Report No. 18220WC10093102S

IEC 62368-1

Clause	Requirement + Test	Result - Remark			Verdict
5.7.2.2,	TABLE: Earthed accessible conductive par	rt			N/A
5.7.4		1			
Supply vol	tage:				_
Location		IEC in IE	conditions specified in 6.1 of 60990 or Fault Condition No C 60990 clause 6.2.2.1 ugh 6.2.2.8, except for 6.2.2.7	Τοι	uch current (mA)
Measured	to PE		1		<u>N/A</u>
			2*		<u>N/A</u>
			3		<u>N/A</u>
			4		<u>N/A</u>
			5		<u>N/A</u>
			6		<u>N/A</u>
			8		N/A

Supplementary Information:

Notes:

[1] Supply voltage is the anticipated maximum Touch Voltage

[2] Earthed neutral conductor [Voltage differences less than 1% or more]

[3] Specify method used for measurement as described in IEC 60990 sub-clause 4.3

[4] IEC60990, sub-clause 6.2.2.7, Fault 7 not applicable.

[5] (*) IEC60990, sub-clause 6.2.2.2 is not applicable if switch or disconnect device (e.g., appliance coupler) provided.

N: Normal condition, R: Reverse condition.

Α	<u>nbotek</u>	Anbotek					
P	roduct Safety	Anboten	Anp ^e	Page 44 of 65	Report No.	18220WC	10093102S
up-	otek Anbc	tek Anboi	tek apotek	IEC 62368-1	botek Anbotek	Aupor	ek nbo
PUD	Clause	botek An	Requirement + Test	Anbote	Result - Remar	k Anbo	Verdict

6.2.2	Та	ble: Electrical	power sour	ces	(PS) measurements fo	or classification	stek Anb Pe	55°.
Source		Description	Measurem	ent	Max Power after 3 s	Max Power after 5 s*)	PS Classifica	ation
Jo. P.	-10	rek Anbore	Power (W)	:	Anbotek Anbo	walt abotek	Anbote.	Ann
A&	Pres	USB input terminal	V _A (V)	:			PS2	
Anboro	P	hotek l	I _A (A)	:				1

Supplementary Information: SC: short circuit

(&) Power measurement for worst-case fault.

(#) Power measurement for worst-case power source fault.

This product was supplied by PC's USB port, which output is 5VDC and was classified as PS2 during test.

6.2.3.1	Table: Determination	on of Potential Ign	ition Sources (Arc	ing PIS)	N/A
		Open circuit voltage After 3 s	Measured r.m.s current	Calculated value	Arcing PIS?
	Location	(Vp)	(Irms)	(Vp x Irms)	Yes / No
botek	Anbote Ant	Anbatek P	nbo	ok Arboto	untek- anbo

Supplementary information:

An Arcing PIS requires a minimum of 50 V (peak) a.c. or d.c. An Arcing PIS is established when the product of the open circuit voltage (V_p) and normal operating condition rms current (I_{ms}) is greater than 15.

6.2.3.2	Table: Dete	rmination of Potentia	al Ignition Source	ces (Resistive P	IS) Notes	N/A
Circuit L	ocation (x-y)	Operating Condition (Normal / Describe Single Fault)	Measured wattage or VA During first 30 s (W / VA)	Measured wattage or VA After 30 s (W / VA)	Protective Circuit, Regulator, or PTC Operated? Yes / No (Comment)	Resistive PIS? Yes/No
All inter	nal circuits	Ant Ant	N	en <u>anbo</u>	botek	Anboro-

Supplementary Information:

A combination of voltmeter, VA and ammeter IA may be used instead of a wattmeter.

If a separate voltmeter and ammeter are used, the product of (VA x IA) is used to determine Resistive PIS classification.

A Resistive PIS: (a) dissipates more than 15 W, measured after 30 s of normal operation, <u>or</u> (b) under single fault conditions has either a power exceeding 100 W measured immediately after the introduction of the fault if electronic circuits, regulators or PTC devices are used, or has an available power exceeding 15 W measured 30 s after introduction of the fault.

Shenzhen Anbotek Compliance Laboratory Limited



Anbotek

IEC 6230 Clause Requirement + Test 8.5.5 TABLE: High Pressure Lamp Description Lamp type Lamp type Cat no. Pressure (cold) (MPa) Pressure (cold) (MPa) Pressure (operating) (MPa) Cat no. Image: Cold Cold Cold Cold Cold Cold Cold Cold	K abote An	Remark Energy Source Cla	Verdict N/A assification
8.5.5 TABLE: High Pressure Lamp Description	-botek Anborek	Anbotek Anb	N/A
Description Description Lamp type Amountain the second sec	Values	Energy Source Cla	
Description Description Lamp type Amountain the second sec	Values	Energy Source Cla	
Lamp type: Manufacturer: Manufacturer: Cat no: Pressure (cold) (MPa) Pressure (operating) (MPa) Operating time (minutes)	Values	Energy Source Cla	assification
Manufacturer			
Cat no. : Pressure (cold) (MPa) : Pressure (operating) (MPa) : Operating time (minutes) : Explosion method :	Anbor Ar nbote		
Pressure (cold) (MPa)	-botek Anb		
Pressure (operating) (MPa): Operating time (minutes) Explosion method	12- · · · · · · · · · · · · · · · · · · ·	—	
Operating time (minutes): Explosion method:	abotek Anboto	MS_	Anbotek
Explosion method	hotek Anbote	MS_	Anbotek
	Anbo		
Max particle length escaping enclosure (mm).:			
	the hotek by	MS_	ю.
Max particle length beyond 1 m (mm):	Anbotok Ar	MS_	2
Overall result	et Anboliek Al		1.20090
Supplementary information:	et prootek pr		No

B.2.5	TABLE:	Input test						Р
U (V)	I (A)	Irated (A)	P (W)	P rated (W)	Fuse No	Ifuse (A)	Condition/	status
5VDC	0.84	2	4.24	otek - Aupc	A A	.botok	The normal work	stek
5VDC	1.33	2	6.65	:NL			Output load: 5W	And

B.3 TABLE: Abnormal operating condition tests N/A Ambient temperature (°C): --Power source for EUT: Manufacturer, model/type, output rating .: ---Component Abnormal Supply Test Fuse Fuse T-couple Temp. Observation voltage, current, (A) No. time no. (°C) Condition (V) (ms) d' 100 ___ ------Supplementary information: S-C = short circuit.

Shenzhen Anbotek Compliance Laboratory Limited



Anbotek Product Safety Page 46 of 65 Report No. 18220WC10093102S IEC 62368-1

Clause	Requirement + Test	Result - Remark	Verdict
50	At A A A A A A A A A A A A A A A A A A	NO' P'	181

Ann	-otek	anbo.	ba.	and the second sec	hote	And	1 hote	K Anbo.
B.4	TABLE: Fa	ult conditi	on tests					Р
Ambient tempera	ture (°C)				:	25.0		—
Power source for	EUT: Manu	facturer, m	odel/type	, output	rating .:	See cover details	page for	—
Component No.	Fault Condition	Supply voltage, (V)	Test time (ms)	Fuse no.	Fuse current, (A)	T-couple	Temp. (°C)	Observation
R3 Manager	S-C	9VDC	10mins	Notek Anto-	0.036	otek p	nbotek Anbr	Unit working normally, no hazard, no damage.
C4	S-C A	9VDC	10mins		0.001			Unit shut down immediately, no hazard, no damage.
U1 pin 3-4	S-C	9VDC	10mins	potek Anbotek	0.001	K Anbo	ter Anbo Ibotek Ar	Unit shut down immediately, no hazard, no damage.
Wireless output	S-C	9VDC	10mins	<u>A</u> nb ak	0.001	nbotek	+nbo" -tek	Unit shut down immediately, no hazard, no damage.

Supplementary information:

S-C = short circuit.

Annex M	TABLE: Batt	eries						p.	N/A Mo
The tests of	Annex M are	applicable o	only when app	propriate ba	attery data	a is not ava	ilable	Pro	otek-
Is it possible	to install the	battery in a	reverse polar	ity position	?		No	Pres	tek
	Non-re	echargeable	batteries		F	Rechargea	ble batteri	es	
	Disch	arging	Un-	Cha	rging	Disch	arging	Reverse	ed charging
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during norma condition		Anbotek	Anbotek	Anbor Anbor	ek pr	potek-	Anbotek Anbotek	Ant Anb	orek A
Test results:	r Aupon	Pro-	notek Ant	poten	Anbu	antoo!	k -µ	ipore L.	Verdict
- Chemical le	aks	oto. Ar	otek	Anbotek	Anbo	et to	otek	Anbor	NO
- Explosion c	f the battery	nboten	Annatek	nbotek	Pupo.	ek bi	hotek	Anpote	NO MO
- Emission of	flame or exp	ulsion of m	olten metal	abote	K AN	p01	Long Cole	onbr	NO
worden .	and Comment	196	ratory Limite	4	alt	boren	Pue	-	Here

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

P	roduct Safe	ty			Page 47	7 of 65		Report No.	18220WC	10093102S
100	otek	nbotek	Aupon	Lek sbote	IEC 6230	68-1	wotek	Anbotek	Pupo,	ek sobot
bu	Clause	Anbotek	Ant	Requirement +	Test	No. I	R	esult - Rema	rk Anbo	Verdict

--

- Electric strength tests of equipment after completion of tests
Supplementary information:

	Table: batterie	Additional safeguards for eas	quipment c	ontaining se	condary lithium	N/A bo
Battery/	Cell	Test conditions		Measur	ements	Observation
No.			U (V)	I (A)	Temp (°C)	
k pobotel	4	Normal	voter	phone	nbotek Anbors	ok botek
stek nob	otek	Single fault:	P00	r	Anbotak Anb	ak abote
wotek -	nbotek	Abnormal :				ibon him

Supplementary Information: SC = short circuit.

nhotek

Battery identification	Charging at T _{lowest} (°C)	Observation	Charging at T _{highest} (°C)	Observation
sek sobotek	Anbote A	hotek Anbotek	inbo tek inb	stek Anbote And hotek

Supplementary Information: The battery surface not exceeds the highest and lowest specified charging temperature under normal operating conditions, abnormal operating conditions or single fault conditions.

Annex Q.1	TABLE: Circuits inten	ded for interc	connection with	building wir	ing (LPS)	N/A
Note: Meas	sured UOC (V) with all loa	d circuits disco	onnected:	P^{*}	tek aboto	Ann
Output	Components	U _{oc} (V)	I _{sc} (A)	S (\	/A)
Circuit			Meas.	Limit	Meas.	Limit
-botek	Anbois Alis	Anpoten	And	abotok	Anbor An	notek-

T.2, T.3, T.4, T.5	Steady for	rce test			Anborek Anborek
Part/Location	Material	Thickness (mm)	Force (N)	Test Duration (sec)	Observation
Top enclosure	See	Min.	100N	shote 5 Ante	No damaged, no hazard
Bottom enclosure	table 4.1.2	thickness: 1.5mm	100N	Supporter 5 Am	No damaged, no hazard
Side enclosure	hotek	1.5mm	100N	5	No damaged, no hazard
Supplementary inform	mation:	Anboten	And	k unbotek	Anbotek Anbotek Anbotek

Shenzhen Anbotek Compliance Laboratory Limited

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

CAN ONLY

Z

Щ

THIS DO

Page 48 of 65

Report No. 18220WC10093102S

T.6, T.9	TABLE: Impact tests	Anno otek	Anbotek Anbr	Lak sbotek	N/A
Part/Location	on Material	Thickness (mm)	Vertical distance (mm)	Obse	ervation
abotek	Aupore Au	worket - an		'r Anb	on An hotek
Supplementa	ry information:	otek anbot	er Aupo	h botek	inbote Anti-

T.7	TABLE	E: Drop tests	Andowiek	anbotek An	bon An hotek Anboth PAnt
Part/Loca	ation	Material	Thickness (mm)	Drop Height (mm)	Observation
Top enclosu	ure pri	See table		1000	No damage, no hazard.
Bottom encl	losure	4.1.2		1000	No damage, no hazard.
Side enclos	ure	Anboten	der N	1000	No damage, no hazard.
Supplement	ary infor	mation:	PUpp. N	1a 400	bore Art , bores Artho

T.8	TABLE: Stress relief	test			abor Anbor P
Part/Locatio	n Material	Thickness (mm)	Oven Temperature (°C)	Duration (h)	Observation
Plastic enclos	ure Plastic	Anboit	70	7 Anu	No damaged, no hazard.

Shenzhen Anbotek Compliance Laboratory Limited



Page 49 of 65

lause	Requirement	: + Test	anboten	Re	sult - Remark	Anbore	Pr.	Verdi
(Audio/\		PEAN GROUF	IE P DIFFERE	NT TO TEST RE C 62368-1 NCES AND NA 1 technology ed	TIONAL DIFF		quire	ements
fference	s according to	Anustek	EN 6236	8-1:2014+A11:2	017 ^{_01^e¹}	Aupo, b	0	N ₉₄
	nt Form No			IEC62368_1B_I	- Dov-	48.	-	an te
	nt Originator tachment		Nemko A Date 201					
	© 2017 IEC Sy switzerland. All			sting and Certi	fication of El	ectrical Equip	ment	(IECE
npol tek	CENELEC C		DIFICATIO	NS (EN)	·······································	· 1001	P.	Verd
Pupo		clauses, notes		ures and annexe	s which are a	dditional to thos	e in	Anboro
ONTENT	ale ho	:2014 are prefix wing annexes:	ked "Z".	ibotek Anbo	ek Anbon	ootek Anbot	ek v	P
DNTENT	ale ho	wing annexes: ormative) ormative) ıformative)	Norm with tl Speci A-dev	ative references heir correspondii al national condi viations nd CENELEC co	ng European p tions	oublications	ek potek	P P A
	Add the follo Annex ZA (ne Annex ZB (ne Annex ZC (in Annex ZD (in	wing annexes: ormative) ormative) oformative) oformative) e "country" note	Norm with tl Speci A-dev IEC a cords	heir correspondii al national condi viations nd CENELEC co	ng European p tions ode designatic	oublications	ing	P
	Add the follo Annex ZA (no Annex ZB (no Annex ZC (in Annex ZD (in Delete all the	wing annexes: ormative) ormative) oformative) oformative) e "country" note	Norm with tl Speci A-dev IEC a cords	heir correspondin al national condi viations nd CENELEC co	ng European p tions ode designatic	oublications	ing	94 P
	Add the follo Annex ZA (no Annex ZB (no Annex ZC (in Annex ZD (in Delete all the to the followin	wing annexes: ormative) oformative) oformative) oformative) e "country" note ng list:	Norm with th Speci A-dev IEC a cords	heir correspondiu al national condi viations nd CENELEC co erence documen	ng European p tions ode designatio t (IEC 62368-	oublications ons for flexible 1:2014) accord	ing	94 P
	Add the follo Annex ZA (no Annex ZB (no Annex ZC (in Annex ZC (in Annex ZD (in Delete all the to the followin 0.2.1	wing annexes: ormative) ormative) oformative) oformative) e "country" note ng list:	Norm with th Speci A-dev IEC a cords s in the refe	heir correspondiu al national condi viations nd CENELEC co erence documen	ng European p tions ode designation t (IEC 62368- 4.1.15 5.4.2.3.2.2	oublications ons for flexible 1:2014) accord	ing	9.K D
	Add the follo Annex ZA (nd Annex ZB (nd Annex ZC (in Annex ZD (in Delete all the to the followin 0.2.1 4.7.3	wing annexes: ormative) oformative) oformative) oformative) e "country" note ng list: Note Note Note 1 and 2	Norm with th Speci A-dev IEC a cords s in the refe	heir correspondiu al national condi viations nd CENELEC co erence documen Note 3 Note	ng European p tions ode designation t (IEC 62368- 4.1.15 5.4.2.3.2.2 Table 13	oublications ons for flexible 1:2014) accord Note Note c	ing	94 P
DITENT	Add the follo Annex ZA (no Annex ZB (no Annex ZC (in Annex ZC (in Annex ZD (in Delete all the to the followin 0.2.1 4.7.3 5.4.2.3.2.4 5.5.2.1	wing annexes: ormative) ormative) oformative) oformative) e "country" note ng list: Note Note 1 and 2 Note 1 and 3	Norm with the Special A-dev IEC a cords as in the reference 1 5.2.2.2 5.4.2.5	heir correspondiu al national condi viations nd CENELEC co erence documen Note 3 Note Note 2	ng European p tions ode designatio t (IEC 62368- 4.1.15 5.4.2.3.2.2 Table 13 5.4.5.1	oublications ons for flexible 1:2014) accord Note Note c Note	nbott Ant	94 P
ek botek Anbotek Anbotek Anborek Anborek Anborek Anborek	Add the follo Annex ZA (nd Annex ZB (nd Annex ZC (in Annex ZD (in Delete all the to the followin 0.2.1 4.7.3 5.4.2.3.2.4 5.5.2.1	wing annexes: ormative) oformative) oformative) oformative) e "country" note ng list: Note Note 1 and 2 Note 1 and 3 Note	Norm with th Speci A-dev IEC a cords s in the refe 1 5.2.2.2 5.4.2.5 5.5.6	heir correspondiu al national condi- viations nd CENELEC co erence documen Note 3 Note 2 Note 2 Note	ng European p tions ode designation t (IEC 62368- 4.1.15 5.4.2.3.2.2 Table 13 5.4.5.1 5.6.4.2.1 10.2.1	oublications ons for flexible 1:2014) accord Note Note c Note c Note 2 and 3 Note 2, 3 and	nbott Ant	A A

Shenzhen Anbotek Compliance Laboratory Limited





lause	Requirement + Test	Result - Remark	Verdic
1 Anbotek Anbotek	Add the following note: NOTE Z1 The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2011/65/EU.	or Anbotek Anbotek	N/A
	hotek Anborek Anborek Anbore	Anbotek Anbotek Anbo	otel as
.Z1	Add the following new subclause after 4.9:	hotek Anbotek Ant	N/A
	To protect against excessive current, short-circuits and earth faults in circuits connected to an a.c. mains , protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):	nbotek Anbotek	Anu-tak Anbo
	a) except as detailed in b) and c), protective devices necessary to comply with the requirements of B.3.1 and B.4 shall be included as parts of the equipment;	-botek Anbor jo	otek Ar Inbolek
	b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;	otek Anbotek Anbotek Nbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
	c) it is permitted for pluggable equipment type B or permanently connected equipment , to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	Ann -tek w	upolek Au
	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	Anbotek Anbotek Anbote Anbotek Anbotek Anbote Anbotek Anbotek Anbo	lek Anti bolek I
.4.2.3.2.4	Add the following to the end of this subclause:	And hotek Anbotek	N/A
	The requirement for interconnection with external circuit is in addition given in EN 50491-3:2009.	Anbotek Anbotek	Anbore
0.2.1	Add the following to ^{c)} and ^{d)} in table 39: For additional requirements, see 10.5.1.	Anboren	N/A

Shenzhen Anbotek Compliance Laboratory Limited





HE DOCL

Clause	Requirement + Test	Result - Remark	Verdic
0.5.1	Add the following after the first paragraph:	K abotek Anbotek	N/A
	For RS 1 compliance is checked by measurement under the following conditions:	or An Anboter	Anbotek
	In addition to the normal operating conditions, all controls adjustable from the outside by hand, by	unbotek Anbotek Anbotek	Anbo
	any object such as a tool or a coin, and those internal adjustments or presets which are not locked in a reliable manner, are adjusted so as to	Anbotek Anbotek Anbot	reh A
	give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made.		hel
	NOTE Z1 Soldered joints and paint lockings are examples of adequate locking.	nbotek Anbotek	Anus
	The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm ² , at any point 10 cm from the outer surface of the apparatus.	-botek Anbotek Anbot	porek Ar
	Moreover, the measurement shall be made under fault conditions causing an increase of the high- voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made.	nek Anbotek Anbo. botek Anbotek Anbotek	Anbotek Anbotek Anbotek
	For RS1, the dose-rate shall not exceed 1 μ Sv/h taking account of the background level. NOTE Z2 These values appear in Directive 96/29/Euratom of 13 May 1996.	Anbotek Anbote Anu Anbotek Anbotek Anbote	jot ^{ek} pr
0.6.1	Add the following paragraph to the end of the subclause:		N/A
	EN 71-1:2011, 4.20 and the related tests methods and measurement distances apply.	pu. M. sek aboto.	PULL
0.Z1	Add the following new subclause after 10.6.5.	Anbotek Anbo tek potel	N/A
	10.Z1 Non-ionizing radiation from radio frequencies in the range 0 to 300 GHz	Anbotek Anbotek Anb	Mato K
	The amount of non-ionizing radiation is regulated by European Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz).	ok Anbotek Anbotek A	nhotek Inbotek Anbote
	For intentional radiators, ICNIRP guidelines should be taken into account for Limiting Exposure to	Anborek Anborek	Ant
	Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz). For hand- held and body-mounted devices, attention is drawn to EN 50360 and EN 50566	Anbotek Anbotek Anbo	hbotek obotek
.7.1	Add the following note:	tek abor	N/A

Shenzhen Anbotek Compliance Laboratory Limited



Clause	Requirement + Test	Result - Remark	Verdic
Bibliograph	Add the following standards:		N/A
hotek	Add the following notes for the standards indicated:		in stek
	IEC 60130-9 NOTE Harmonized as EN 6013	80-9. No set supplier	Anbu
	IEC 60269-2 NOTE Harmonized as HD 6026	69-2.	Anbo
	IEC 60309-1 NOTE Harmonized as EN 6030	9-1. Month Market Market	-
	IEC 60364 NOTE some parts harmonized i		P
	IEC 60601-2-4 NOTE Harmonized as EN 6060	1-2-4.	101
	IEC 60664-5 NOTE Harmonized as EN 60664	4-5.	×.
	IEC 61032:1997 NOTE Harmonized as EN 61032	2:1998 (not modified).	sek
	IEC 61508-1 NOTE Harmonized as EN 61508	8-1. All set apporter	Anu
	IEC 61558-2-1 NOTE Harmonized as EN 6155	8-2-1.	Anbo
	IEC 61558-2-4 NOTE Harmonized as EN 6155	8-2-4.	- 1 J
	IEC 61558-2-6 NOTE Harmonized as EN 6155	8-2-6.	Pa
	IEC 61643-1 NOTE Harmonized as EN 61643	3-1	ler.
	IEC 61643-21 NOTE Harmonized as EN 61643	3-21.	Notek
	IEC 61643-311 NOTE Harmonized as EN 61643	3-311. Notes and a second s	Xex.
	IEC 61643-321 NOTE Harmonized as EN 61643	3-321.	Aupor
	IEC 61643-331 NOTE Harmonized as EN 61643	3-331.	Anbot
B Anb	ANNEX ZB, SPECIAL NATIONAL CONDITIONS	(EN)otek Antonio Anton	N/A
1.1.15	Denmark, Finland, Norway and Sweden	hotek Anboren Anbo	N/A
	To the end of the subclause the following is added:	And tek nobo	
	Class I pluggable equipment type A intended for		
	connection to other equipment or a network shall,		
	if safety relies on connection to reliable earthing or if surge suppressors are connected between the		
	network terminals and accessible parts, have a	po A stek subore	Dur
	marking stating that the equipment shall be	anbotek Anbo. A. hotek	Ant
	connected to an earthed mains socket-outlet.	All Anboten Ano	×
	The marking text in the applicable countries shall be as follows:	Anbo hotek Anbotek Anbot	*e¥
	In Denmark : "Apparatets stikprop skal tilsluttes en	And tek abotek Ant	,0°
	stikkontakt med jord som giver forbindelse til stikproppens jord."	ek Anbor Anborek	Inpoten
	In Finland : "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"	Anbotek	Anbor
	In Norway: "Apparatet må tilkoples jordet	Anbor All stek Anbor	le l
	stikkontakt" In Sweden : "Apparaten skall anslutas till jordat uttag"	Anbotek Anbotek Anb	otek
honest	stikkontakt" In Sweden : "Apparaten skall anslutas till jordat uttag"	Anbotek Anbotek Anbotek Anb	N/A
.7.3	stikkontakt" In Sweden : "Apparaten skall anslutas till jordat	Anbotek Anbotek Anbotek Anbotek	N/A

Shenzhen Anbotek Compliance Laboratory Limited



ш

VAS

Clause	Requirement + Test	Result - Remark	Verdict
5.2.2.2	Denmark	K subotek Aubou At	N/A
	After the 2nd paragraph add the following:	Anboter	ant
	A warning (marking safeguard) for high touch current is required if the touch current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	on Annotek Anbotek Anbotek	Anbor
5.4.11.1	Finland and Sweden	Anboten Allas stek anbote	N/A
and Annex	To the end of the subclause the following is added:	wotek Anbo, A.	NOK
Anbotek k	For separation of the telecommunication network from earth the following is applicable:		*
	If this insulation is solid, including insulation forming part of a component, it shall at least consist of either	nbotek Anboten	Antu-tek Anbote
	• two layers of thin sheet material, each of which shall pass the electric strength test below, or	-botek Anbore Anti-	Anb
	• one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.	Andor A	lootek p
	If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that clearances and creepage distances do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition	hek Anbor An hootek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anboten Anboten Anboten Anbo
	• passes the tests and inspection criteria of 5.4.8 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 5.4.9 shall be performed using 1,5 kV), and	bo. A. Anbotek Anbote.	An- ek
	• is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5kV.	Anbotek Anbotek Anbot	ok Al
	It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2.	ek Anbotek Anbotek An	unbotek
	A capacitor classified Y3 according to EN 60384- 14:2005, may bridge this insulation under the following conditions:	Anbotek Anbotek	Anboi
	• the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 60384-14, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in 5.4.11;	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek
	• the additional testing shall be performed on all the test specimens as described in EN 60384-14;	otek Anbor Ant	Anboten
	the impulse test of 2,5 kV is to be performed before the endurance test in EN 60384-14, in the sequence of tests as described in EN 60384-14.	Anbotek Anbotek Anbotek	Anbo

Shenzhen Anbotek Compliance Laboratory Limited





č

ш

Clause	Requirement + Test	Result - Remark	Verdict
5.5.2.1	Norway After the 3rd paragraph the following is added:	ek Anbotek Anbor An	N/A
	Due to the IT power system used, capacitors are required to be rated for the applicable line-to-line voltage (230 V).	anbotek Anbotek Anbotek	Anbore
5.5.6	Finland, Norway and Sweden	Anborn Ann stek mboth	N/A
	To the end of the subclause the following is added:	hotek Anbo	Nox.
	Resistors used as basic safeguard or bridging basic insulation in class I pluggable equipment type A shall comply with G.10.1 and the test of G.10.2.	or Ar atek anboter	Anustek
5.6.1	Denmark of the second	nter statek	N/A
	Add to the end of the subclause	sbotek Anboit Allis	K ant
	Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. <i>Justification:</i> In Denmark an existing 13 A socket outlet can be	tek Anbotek Anbo. A botek Anbotek Anbotek	orek pbotek Anbotek Anbotek
5.6.4.2.1	protected by a 20 A fuse. Ireland and United Kingdom	Anbotek Anbotek Annotek Annotek	N/A
Anborek	After the indent for pluggable equipment type A , the following is added: – the protective current rating is taken to be 13 A, this being the largest rating of fuse used in the mains plug.	Anboten Anbr stek snbr	N/A
5.6.5.1	To the second paragraph the following is added: The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current over 10 A and up to and including 13 A is:	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbo	N/A
TE sal	1,25 mm ² to 1,5 mm ² in cross-sectional area.	ok Aupo, bui	NI/A S
5.7.5 Andore	Denmark To the end of the subclause the following is added:	Anthotek	N/A
	The installation instruction shall be affixed to the equipment if the protective conductor current exceeds the limits of 3,5 mA a.c. or 10 mA d.c.	Anu Anu Anu Anu	Anbr

Shenzhen Anbotek Compliance Laboratory Limited





-alt

lause	Requirement + Test	Result - Remark	Verdict
7.6.1	Norway and Sweden	K nbotek Anbot A	N/A
	To the end of the subclause the following is added:	A. X Anboter	Run vek
	The screen of the television distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation needs to be isolated from the screen of a cable distribution system.	unbo A otek unbote.	Anboit Anbot ek kek
	It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by a retailer, for example.	nbotek Anboten	Anu-Jek
	The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:	-botek Anbotek Anbo	otek I
	"Apparatus connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system	hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek Anbotek
	therefore has to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728- 11)" NOTE In Norway, due to regulation for CATV-installations, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength	And tek and	An- of
	of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min. Translation to Norwegian (the Swedish text will also be accepted in Norway):	Anbotek Anbotek Anbotek Anbotek	tek Anbo
	"Apparater som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et koaksialbasert kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av apparater til kabel-TV nett installeres en galvanisk isolator mellom apparatet og kabel-TV nettet."	Anbotek Anbotek A Anbotek Anbotek A Anbotek Anbotek Anbotek Anbotek	hotek Anbotek Anbotek
	Translation to Swedish:	Anbor All stek abo	ler bu
	"Apparater som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medfőra risk főr brand. Főr att undvika detta skall vid anslutning av apparaten till kabel-TV nät galvanisk isolator finnas mellan apparaten och kabel-TV nätet.".	Aur stek Anboten An	botek Anbotek Anbotek

Shenzhen Anbotek Compliance Laboratory Limited



1.38

Clause	Requirement + Test	Result - Remark	Verdict
5.7.6.2	Denmark	K subotek Anbon A	N/A
	To the end of the subclause the following is added:	Aur K Anboten	p.nb.
	The warning (marking safeguard) for high touch current is required if the touch current or the protective current exceed the limits of 3,5 mA.	unbotek Anbotek Anbotek	Anbois
3.3.1 and 3.4	Ireland and United Kingdom The following is applicable:	Anbotek Anbotek Anbote	N/A
	To protect against excessive currents and short- circuits in the primary circuit of direct plug-in equipment , tests according to Annexes B.3.1 and B.4 shall be conducted using an external miniature	or pr	Anustek
	circuit breaker complying with EN 60898-1, Type B, rated 32A. If the equipment does not pass these tests, suitable protective devices shall be included as an integral part of the direct plug-in equipment , until the requirements of Annexes B.3.1 and B.4 are met	-botek Anbotek Anbotek	Anbote Anb
.4.2	Denmark	,	N/A
Anbore	To the end of the subclause the following is added:	tek Anbore Ann stek	Anboile A
	Supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1:2011. CLASS I EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbor Anbr
	If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-2.	Anbotek Anbotek Anbotek	Ant ek Anbo
	Mains socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance DS 60884-2-D1:2011 standard sheet DKA 1-4a.	ek Anbotek Anbotek Anbotek Anbotek Anbotek	unbotek
	Other current rating socket outlets shall be in compliance with Standard Sheet DKA 1-3a or DKA 1-1c.	Anbotek Mek Anbotek	Anbois
	Mains socket-outlets with earth shall be in compliance with DS 60884-2-D1:2011 Standard Sheet DK 1-3a, DK 1-1c, DK1-1d, DK 1-5a or DK 1-7a	Anbotek Anbotek Anbotek Anbotek	obotek
	Justification: Heavy Current Regulations, Section 6c	ntek unbotek Anbote ak	hinsbotek

Shenzhen Anbotek Compliance Laboratory Limited



DOC

ш

L S

Report No. 18220WC10093102S

.eX

Clause	Requirement + Test	Result - Remark	Verdict
6.4.2	United Kingdom To the end of the subclause the following is added	telk Anbotek Anbotek	N/A
Anbo tek An botek An Anbotek	The plug part of direct plug-in equipment shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.13, 12.16, and 12.17, except that the test of 12.17 is performed at not less than 125 °C. Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.	htor An. An. Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Notek Anbotek Anbotek	Anboi Anborek Anboi
6.7.1	United Kingdom	bon An it noten	N/A
	To the first paragraph the following is added:	nboten Anu otek	nbotek
	Equipment which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord shall be fitted with a 'standard plug' in accordance with the Plugs and Sockets etc (Safety) Regulations 1994, Statutory Instrument		orek Anborr
	1994 No. 1768, unless exempted by those	nek anbotek Anbo	obotek
	regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.	Albotek Anbotek Anbotek	Anbotek
G.7.1	Ireland	Antorek Anbores Anno	N/A
	To the first paragraph the following is added:	Ann tok nb	Pro Pro
	Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. S.I. 525 provides for the	sibo. h. sk sboto.	Am- ek
tek Anb	recognition of a standard of another Member State which is equivalent to the relevant Irish Standard	Anbotek Anbotek Anbotek Anbotek	Anbote
G.7.2	Ireland and United Kingdom	Anto otek subotek Anbo	N/A
	To the first paragraph the following is added:	Anbo Ar hotek Ar	Note P
	A power supply cord with a conductor of 1,25 mm ² is allowed for equipment which is rated over 10 A and up to and including 13 A.	otek Anboten Anu Anbotek	Anbotek

Shenzhen Anbotek Compliance Laboratory Limited



Ë

ş

THE DOCUMENT

CAN ONLY BE

S

Ľ

HLIN

THIS DOCUI

Report No. 18220WC10093102S

Clause	Requirement + Test	Result - Remark	Verdict
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	rek nobotek Anbott At	N/A
10.5.2	Germany The following requirement applies:	bon Am tek Anborek	N/A
	For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Kotek Anbotek Anbot	Anbore Anbor tek Anbor
	<i>Justification:</i> German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM.	nbotek Anbotek	Anu-stek Anbotek
	NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int +49-531-592-6320, Internet: http://www.ptb.de	-botek Anbor An	orek Ant

Shenzhen Anbotek Compliance Laboratory Limited



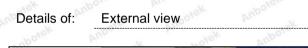


Page 59 of 65

Report No. 18220WC10093102S

Attachment 2: Photo Details of: External view







Shenzhen Anbotek Compliance Laboratory Limited



Page 60 of 65

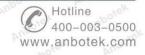
Report No. 18220WC10093102S

Details of: Internal view 1



Details of: Top view of PCB

Shenzhen Anbotek Compliance Laboratory Limited





Page 61 of 65

Report No. 18220WC10093102S

Details of: Bottom view of PCB with heatsink

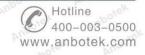


Details of: Bottom vie

Bottom view of PCB



Shenzhen Anbotek Compliance Laboratory Limited



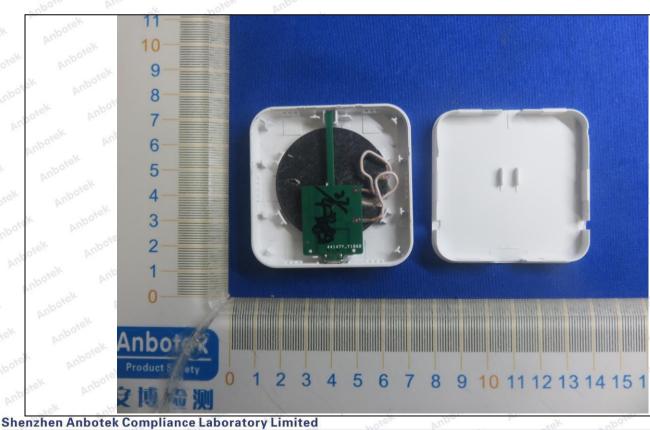


Page 62 of 65

Report No. 18220WC10093102S

Details of: Bottom view of PCB





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

Email: service@anbotek.com

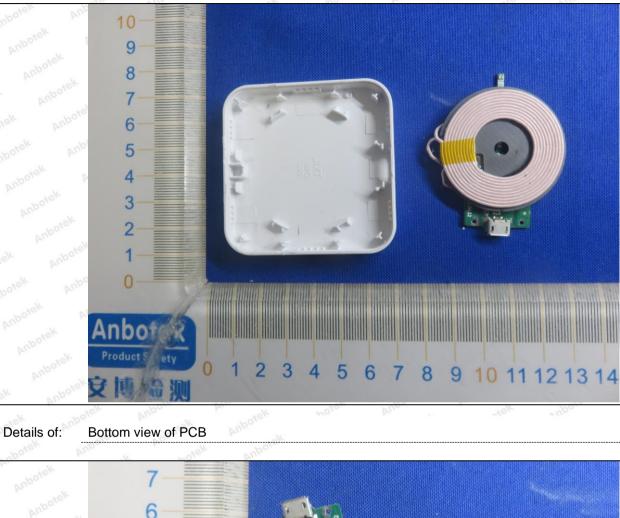


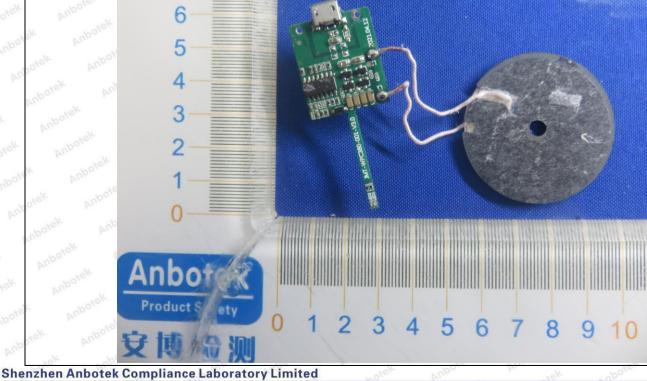


Page 63 of 65

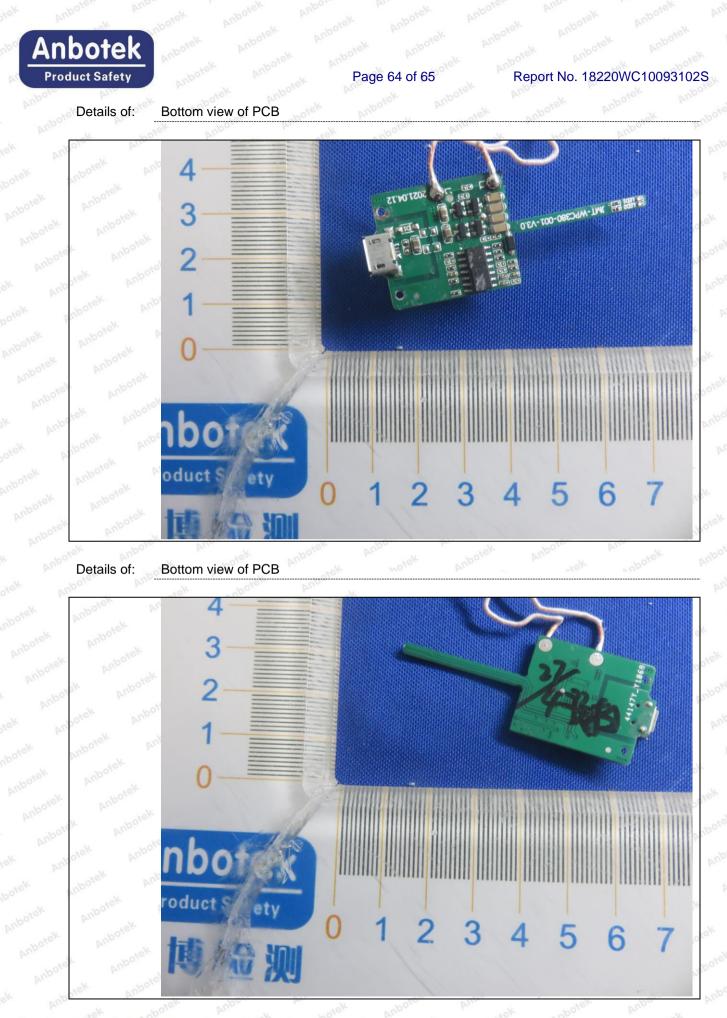
Report No. 18220WC10093102S

Details of: Bottom view of PCB





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



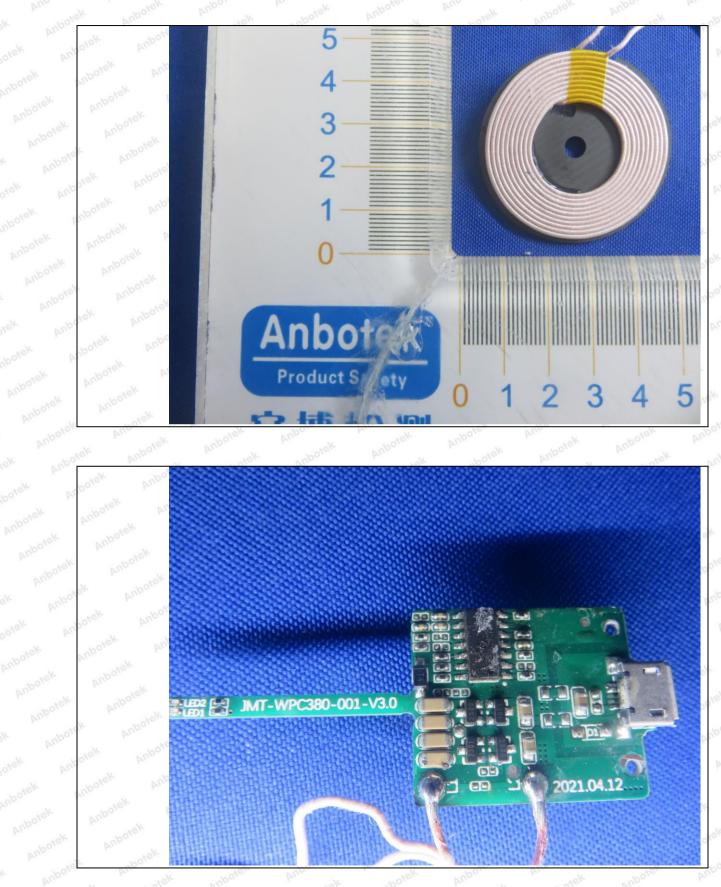
Shenzhen Anbotek Compliance Laboratory Limited

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



Page 65 of 65

Report No. 18220WC10093102S



End of the report

Shenzhen Anbotek Compliance Laboratory Limited

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