

Safety Test Report

Report No.: AGC01180160501ES01

PRODUCT DESIGNATION: IP Phone

BRAND NAME : ATCOM

MODEL NAME : A68W, A48W

CLIENT: ATCOM TECHNOLOGY CO., LIMITED

DATE OF ISSUE : May 19, 2016

STANDARD(S) : EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.

CAUTION:

This report shall not be reproduced except in full without the written permission of the test laboratory and shall not be quoted out of context.



The results showed (this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by (QQ), this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance

Tel: (86-755) 29081955 Fax: (86-755) 26008484 Http://www.agc-cert.com E-mail: agc@agc-cert.com Add: 2F., No.2 Building, Huafeng No.1 Technical Industrial Park, Sanwei, Xixiang, Baoan District, Shenzhen



Page 2 of 52

TEST REPORT

EN 60950-1

Information technology equipment-Safety-Part 1: General requirements

Report Reference No...... AGC01180160501ES01

Tested by (+ signature) Sara Li

Reviewed by (+ signature) Matte He

Sara Li mette He soya shay

Solger Zhang Approved by (+signature)

(Authorized Officer)

Date of issue May 19, 2016

Contents...... Total 52 pages.

Testing laboratory

Name...... Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address 2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park,

Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China

Testing location...... Same as above.

Applicant

Name...... ATCOM TECHNOLOGY CO., LIMITED

Address FL2, Block3, Huangguan Industry Park #21 Tai Ran 9th Rd, Futian,

Shenzhen City, China

Manufacturer

Name...... ATCOM TECHNOLOGY CO., LIMITED

Address FL2, Block3, Huangguan Industry Park #21 Tai Ran 9th Rd, Futian,

Shenzhen City, China

Test specification

Standard...... EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

Procedure deviation...... N/A

Non-standard test method...... N/A

Test Report Form/blank test report

Attestation of Global Compliance

Test Report Form No...... AGC60950A7

Test Report Form(s) Originator....... AGC

Master TRF...... Dated 2014-04

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 💢 this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 3 of 52

Test item	
Product designation IP Phone	
Brand name ATCOM	
Test model A68W	
Series model A48W	
Rating(s) 5V , 2A	
Particulars	
Equipment mobility Connection to the mains	☐movable ☐ hand-held ☐transportable ☐stationary ☐for building-in ☐direct plug-in ☐pluggable equipment ☐ type A ☐type B ☐permanent connection ☐detachable power supply cord ☐ the plant of the ball of the power supply cord ☐ the plant of the ball of the power supply cord ☐ the plant of the ball of the power supply cord ☐ the plant of the ball of the power supply cord ☐ the plant of the ball of the power supply cord ☐ the plant of the ball of the power supply cord ☐ the plant of the pl
Operating condition: Access location:	☐ rated operating/ resting time: ☐ operator accessible ☐ restricted access location
Over voltage category(OVC):	OVC I □OVC II □OVC III □OVC IV ☑other
Mains supply tolerance(%) or absolute mains supply values	N/A
Tested for IT power systems	□Yes ⊠No
IT testing, phase-phase voltage(V)	
Class of Equipment:	☐Class I ☐Class II ☐Class III ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Considered current rating of protective device as part of the building installation (A)	N/A
Pollution degree(PD)	□PD 1 □PD3
Protection against ingress of water	IPX0
Altitude during operation (m)	2000m
Altitude of test laboratory (m)	<500m
Mass of equipment (kg):	<1Kg
Test case verdicts	
Test case does not apply to the test object	N (/A)
Test item does meet the requirement:	P (ass)
Test item does not meet the requirement:	F (ail)
Testing	
Date of receipt of test item	May 11, 2016
Date(s) of performance of test	May 11 – May 19, 2016

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 4 of 52

Attachment

Attachment A.....: Photos of product

General remarks

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

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

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

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

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

Report Revise Record:				
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	2016-05-19	Valid	Original report

General product information

The product supplied by Li-ion battery, and charge from approved ADAPTER with DC jack connection, which is considered moveable and Class III (supplied by SELV).

All models are identical except for model name, A68W and A48W have the same board, but different on keyboard and LCD panel. All tests were conducted with model A68W and A48W.

Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold.

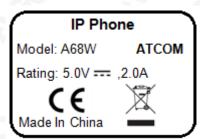
The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of 40 °C.

Summary of testing

The test item passed.

Copy of marking plates

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.



Remark: The CE marking and WEEE symbol (if any) should be at least 5.0mm and 7.0mm respectively in height.

The results snown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by 600, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 5 of 52

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdic
1 4	GENERAL		Р
- T. T.			
1.5	Components		Р
1.5.1	General		# P
	Comply with IEC 60950 or relevant component standard	Components which were found to affect safety aspects comply with the requirements of this standard or with the safety aspects of the relevant IEC/EN component standards. (see appended table 1.5.1)	P
1.5.2	Evaluation and testing of components	Components which are certified to IEC/EN and/or national standards are used correctly within their ratings. Components not covered by IEC/EN standards are tested under the conditions present in the equipment.	Р
1.5.3	Thermal controls	No any thermal controls.	N
1.5.4	Transformers	No transformers	N
1.5.5	Interconnecting cables	Cable to other unit is carrying only SELV voltages on and energy level below 240VA	Р
1.5.6	Capacitors bridging insulation	No such capacitor.	N
1.5.7	Resistors bridging insulation	No such components.	N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	4 3 1 1 1 1 C	N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	% 20° V	N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains antenna or coaxial cable		N
1.5.8	Components in equipment for IT power systems	47	N
1.5.9	Surge suppressors	No such parts.	N
1.5.9.1	General	, 10, 40	N
1.5.9.2	Protection of VDRs		N
1.5.9.3	Bridging of functional insulation by a VDR	V	N
1.5.9.4	Bridging of basic insulation by a VDR	30 J	N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	19 CO	N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance

Power interface

1.6



Report No.: AGC01180160501ES01 Page 6 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
1.6.1	AC power distribution systems	No direct mains connection.	N
1.6.2	Input current	(See appended table 1.6.2)	Р
1.6.3	Voltage limit of hand-held equipment	Voltage<250V	Р
1.6.4	Neutral conductor	Class III equipment, no neutral conductor.	N

1.7	Marking and instructions		Р
1.7.1	Power rating	See below	Р
	Rated voltage(s) or voltage range(s) (V)	5V	
	Symbol for nature of supply, for d.c. only:	=	
	Rated frequency or rated frequency range (Hz):		
H. area	Rated current (mA or A)	2A	
1.7.1.2	Identification markings	23/	Р
	Manufacturer's name or trademark or identification mark	ATCOM	
	Type/model or type reference:	A68W, A48W	
9	Symbol for Class II equipment only:	Class III equipment	
4	Other marking and symbols:	See marking plate.	
1.7.1.3	Use of graphical symbols	_#\dots	Р
1.7.2	Safety instructions and marking	See report summary for detail	Р
1.7.2.1	General	See below.	Р
1.7.2.2	Disconnect devices	No such devices	N
1.7.2.3	Overcurrent protective device		N
1.7.2.4	IT power distribution systems	/ LO V	N
1.7.2.5	Operator access with a tool		N
1.7.2.6	Ozone	V	N
1.7.3	Short duty cycles	Equipment is designed for continuous operation.	N
1.7.4	Supply voltage adjustment:	No such devices used	N
	Methods and means of adjustment; reference to installation instructions:		N
1.7.5	Power outlets on the equipment	10 mg 2 mg	N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):		N
1.7.7	Wiring terminals	The state of the s	N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 7 of 52

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1.7.7.1	Protective earthing and bonding terminals:	Class III equipment, no protective earthing	N
1.7.7.2	Terminal for a.c. mains supply conductors	4, 7	N
1.7.7.3	Terminals for d.c. mains supply conductors	W/ 50	N
1.7.8	Controls and indicators		A P
1.7.8.1	Identification, location and marking	It is obviously unnecessary.	N
1.7.8.2	Colours	The colours used for LED are indicating function. No safety consideration.	Р
1.7.8.3	Symbols according to IEC 60417		N
1.7.8.4	Markings using figures	Not applicable.	N
1.7.9	Isolation of multiple power sources	No direct connection to mains supply	N
1.7.10	Thermostats and other regulating devices	No thermostats or other regulating devices used inside battery pack are not adjustable during normal use.	N
1.7.11	Durability	The marking withstands required tests.	Р
1.7.12	Removable parts	No such parts.	N
1.7.13	Replaceable batteries	No battery	N
	Language(s)	46.30	
1.7.14	Equipment for restricted access locations:	O'V	N 🐬

2	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy hazards	No hazardous parts in operator access areas.	Р
2.1.1	Protection in operator access areas	7 (6)	Р
2.1.1.1	Access to energized parts	No energized parts.	Р
*	Test by inspection	to Self	
46	Test with test finger(Figure 2A)	* 2"," G"	
44. 35	Test with test pin (Figure 2B)		
	Test with test probe (Figure 2C)	C V	
2.1.1.2	Battery compartments	43	N
2.1.1.3	Access to ELV wiring		N
Sept. 188	Working voltage (Vpeak or Vrms); minimum distance (mm) through insulation	4. TO Y	
2.1.1.4	Access to hazardous voltage circuit wiring		N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 8 of 52

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.1.1.5	Energy hazards:	No energy hazard in operator access area.	Р
2.1.1.6	Manual controls		N
2.1.1.7	Discharge of capacitors in equipment	No primary circuit.	N
9	Time-constant (s); measured voltage (V):	, v	
2.1.1.8	Energy hazards – d.c. mains supply	Not directly connect to mains supply	N
11 35	a)Capacitor connected to the d.c. mains supply:	18 Jan 19 19 19 19 19 19 19 19 19 19 19 19 19	N
The said	b)Internal battery connected to the d.c. mains supply:	- C* **	N
2.1.1.9	Audio amplifiers	No any amplifiers	N
2.1.2	Protection in service access areas	V 5	» N
2.1.3	Protection in restricted access locations	15 pt	N

2.2	SELV circuits	6	Р
2.2.1	General requirements	42.4V peak or 60VDC are not exceeded in SELV circuit under normal operation or single fault condition.	P
2.2.2	Voltages under normal conditions (V)	Within SELV limits.	Р
2.2.3	Voltages under fault conditions (V)	Within SELV limits.	Р
2.2.4	Connection of SELV circuits to other circuits:	O V .	N

2.3	TNV circuits		N
2.3.1	Limits	No TNV circuits.	N
6)	Type of TNV circuits	30° V	N
2.3.2	Separation from other circuits and from accessible parts	**	N
2.3.2.1	General requirements	45.30	N
2.3.2.2	Protection by basic insulation	.*. 2%	N
2.3.2.3	Protection by earthing		N
2.3.2.4	Protection by other constructions	0	● N
2.3.3	Separation from hazardous voltages	(A)	N
*	Insulation employed		N
2.3.4	Connection of TNV circuits to other circuits	45.35° C1.3	N
	Insulation employed	A See O	N
2.3.5	Test for operating voltages generated externally		N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Report No.: AGC01180160501ES01 Page 9 of 52

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
2.4	Limited current circuits	\$ 14, 18°	N
2.4.1	General requirements	No limited current circuits to be evaluated.	N
2.4.2	Limit values	67	N
O	Frequency (Hz)	, ,	N
.55.	Measured current (mA)		N
45	Measured voltage (V)		N
Mary 200	Measured capacitance (nF or μF)	(F) (B) (B)	N
2.4.3	Connection of limited current circuits to other circuits	-CO V	N

2.5	Limited power sources		N
A STORY	a)Inherently limited output	25,5	N
4 _{Gb}	b)Impedance limited output	6" 20	N
	c)Regulating network limited output under normal operating and single fault condition		N
	d)Overcurrent protective device limited output	A. 14. 150	N
	Max. output voltage (V), max. output current (A), max. apparent power (VA):	, 15 m	
	Current rating of overcurrent protective device (A)	19.7	N
	Use of integrated circuit (IC) current limited) /	N

2.6	Provisions for earthing and bonding		N
2.6.1	Protective earthing	Class III equipment.	N
2.6.2	Functional earthing	7 20 V	N
	Use of symbol for functional earthing		N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General	S S C	N
2.6.3.2	Size of protective earthing conductors	3° 6' 40	N
	Rated current (A), cross-sectional area (mm2), AWG:		N
2.6.3.3	Size of protective bonding conductors	* # # # # # # # # # # # # # # # # # # #	N
Section 1	Rated current (A), cross-sectional area (mm2), AWG	2 () Jan 19 () 19 () 19 () 19 () 19 () 19 () 19 () 19 () 19 () 19 () 19 () 19 () 19 () 19 () 19	N
2.6.3.4	Resistance of earthing conductors and their terminations, resistance(Ω), voltage drop(V),test current (A), duration(min)	CO*** *	N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 10 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
2.6.3.5	Colour of insulation	*, ","	N
2.6.4	Terminals	to I	N
2.6.4.1	General	24.5 O	N
2.6.4.2	Protective earthing and bonding terminals	79	N
***	Rated current (A), type and nominal thread diameter (mm)		N
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N
2.6.5	Integrity of protective earthing	. O. V	N
2.6.5.1	Interconnection of equipment		N
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N
2.6.5.3	Disconnection of protective earth	· 29.5 65	N
2.6.5.4	Parts that can be removed by an operator	67 0	N
2.6.5.5	Parts removed during servicing	0 0	N
2.6.5.6	Corrosion resistance	15 15	N
2.6.5.7	Screws for protective bonding	* 24.5°	N
2.6.5.8	Reliance on telecommunication network or cable distribution system	10°	N

2.7	Overcurrent and earth fault protection in primary circuits		N
2.7.1	Basic requirements	With power supply from approved AC/DC SWITCHING POWER ADAPTER or secondary lithium battery, no primary circuits inside.	N
	Instructions when protection relies on building installation	». ⁷ 60, A	N
2.7.2	Faults not covered in 5.3.7	7	N
2.7.3	Short-circuit backup protection	45. 35.5	N
2.7.4	Number and location of protective devices:	* 2% O	N
2.7.5	Protection by several devices	3° 63° 20°	N
2.7.6	Warning to service personnel:	O	, N

2.8	Safety interlocks		M N
2.8.1	General principles	No safety interlocks	N
2.8.2	Protection requirements	45.30° A.330° A.	N
2.8.3	Inadvertent reactivation	2 M. F. CO.	N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 11 of 52

	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
2.8.4	Fail-safe operation	14. j. d.	N		
4	Protection against extreme hazard		N		
2.8.5	Moving parts	243.8° O	N		
2.8.6	Overriding	14	N		
2.8.7	Switches and relays		N		
2.8.7.1	Contact gaps (mm)	*	N		
2.8.7.2	Overload test		N		
2.8.7.3	Endurance test	6 CM	N		
2.8.7.4	Electric strength test	~ 6	N		
2.8.8	Mechanical actuators		N.		

2.9	Electrical insulation		N
2.9.1	Properties of insulating materials	Natural rubber, asbestos or hygroscopic materials are not used.	N
2.9.2	Humidity conditioning	O V .7	N
	Humidity (%),temperature (°C)	15 July 20	N
2.9.3	Grade of insulation	the state of the s	N
2.9.4	Separation from hazardous voltages	1.4° 1.0°	N
	Method(s) used:	47	N

2.10	Clearances, creepage distances and distances through insulation		
2.10.1	General	Functional insulation only.	N
The substitute	Frequency	. */*	N
6	Pollution degrees	20 V	N
)	Reduced values for functional insulation	9	N
	Intervening unconnected conductive parts		N
# P.	Insulation with varying dimensions	\$ 1. The state of	N
A. St. Barber	Special separation requirements	67 67 20°	N
A STATE OF THE STA	Insulation in circuits generating starting pulses	, 10, 40	N
2.10.2	Determination of working voltage	2 0 V ;	N
2.10.3	Clearances	1 Trus	N
2.10.3.1	General	\$ // \$ //	N
2.10.3.2	Mains transient voltages	20	N
	a)AC mains supply	10/10/10	N
	b)Earthed d.c. mains supplies	-O V	N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 12 of 52

	EN 60950-1			
Clause	Requirement – Test	Result -	- Remark	Verdict
	c)Unearthed d.c. main supplies			N
_ 4,	d)Battery operation:	46		N
2.10.3.3	Clearances in primary circuits	11/100	6	N
2.10.3.4	Clearances in secondary circuits	A State		N
2.10.3.5	Clearances in circuits having starting pulses			// N
2.10.3.6	Transients from a.c. mains supply	4	45. 30.	N
2.10.3.7	Transients from d.c. mains supply	A STANDARY		N
2.10.3.8	Transients from telecommunication networks and cable distribution systems:	3.00°	CO V	N
2.10.3.9	Measurement of transient voltage levels			N
	a)Transients from a mains supply		A State of the sta	N
AST THE	For a.c. mains supply	6	4.7	N
C. Salar	For d.c. mains supply:	100	19,1	N
	b)Transients from			N
2.10.4	Creepage distances	-	4	N
2.10.4.1	General		4 4 1	N
2.10.4.2	Material group and comparative tracking index		19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
-4	CTI tests	44		N
2.10.4.3	Minimum creepage distances	The said		N
2.10.5	Solid insulation	9	*	N
2.10.5.1	General		A 49,7	N
2.10.5.2	Distances through insulation	140	4.3	N
2.10.5.3	Insulation compound as solid insulation	The state of the s	2.97	N
2.10.5.4	Semiconductor device	r de la companya del companya de la companya del companya de la co		N
2.10.5.5	Cemented joints			N
2.10.5.6	Thin sheet material - General		W/W/	N
2.10.5.7	Separable thin sheet material	-	4, 3, 3	N
All Salada	Number or layers(pcs)	S. Carrier	2 ³ /	N
2.10.5.8	Non-separable thin sheet material		.0	N
2.10.5.9	Thin sheet material – standard test procedure		9	N N
A	Electric strength test		* 4. S	N
2.10.5.10	Thin sheet material – alternative test procedure			N
	Electric strength test		11, 200	N
2.10.5.11	Insulation in wound components	-3		N
2.10.5.12	Wire in wound components	70		N 2

The results shown and his test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 13 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	Working voltage		N
44.	a)Basic insulation not under stress:		N
	b)Basic, supplementary, reinforced insulation:	. 4. F	N
	c)Compliance with Annex U:	79	N
1	Two wires in contact inside wound component; angle between 45° and 90°	***	N
2.10.5.13	Wire with solvent-based enamel in wound components		N
7,500	Electric strength test	. 10. A.	N
	Routine test		N
2.10.5.14	Additional insulation in wound components	V 27 2	N
Ji.	Working voltage	\$ 10° (10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	N
in a comment	-basic insulation not under stress	· 45 30 20	N
	-Supplementary, reinforced insulation	.0"	N
2.10.6	Construction of printed boards	O V 37	N
2.10.6.1	Uncoated printed boards	(A)	N
2.10.6.2	Coated printed boards	De Tree	N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N
2.10.6.4	Insulation between conductors on different layers of a printed board	O V	N 4
	Distance through insulation	- 1 To 1	N
1/2	Number of insulation layers(pcs)	197 9.3° C	N
2.10.7	Component external terminations		N
2.10.8	Tests on coated printed boards and coated components		N
2.10.8.1	Sample preparation and preliminary inspection	V 33.7	N
2.10.8.2	Thermal conditioning	4.	N
2.10.8.3	Electric strength test	8 Jr. 6 Jr. 20	N
2.10.8.4	Abrasion resistance test	, 10,	N
2.10.9	Thermal cycling	O V ,	N
2.10.10	Test for Pollution Degree 1 environment and insulating compound	20,70	N
2.10.11	Test for semiconductor devices and cemented joints		N
2.10.12	Enclosed and sealed parts		N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 14 of 52

	EN 60950	-1	
Clause	Requirement – Test	Result – Remark	Verdict
3	WIRING, CONNECTIONS AND SUPPLY	* * * * * * * * * * * * * * * * * * * *	P
3.1	General		Р
3.1.1	Current rating and overcurrent protection	Adequate cross sectional areas on internal wiring. No internal wire for primary power distribution.	Р
3.1.2	Protection against mechanical damage	Wires do not touch sharp edges that could damage the insulation and cause hazard.	P
3.1.3	Securing of internal wiring	Internal wiring is reliable secured	Р
3.1.4	Insulation of conductors	The insulation of the individual conductors is suitable for the application and the working voltage.	Р
3.1.5	Beads and ceramic insulators	No such insulators provided.	N
3.1.6	Screws for electrical contact pressure	No electrical contact pressure by screwed connections.	N
3.1.7	Insulating materials in electrical connections	No contact pressure through insulating material.	N
3.1.8	Self-tapping and spaced thread screws	Thread-cutting or space thread screws are not used for electrical connections.	N
3.1.9	Termination of conductors		N
	10 N pull test		N
3.1.10	Sleeving on wiring	No sleeving used to provide supplementary insulation	N

3.2	Connection to a mains supply		N
3.2.1	Means of connection	Class III equipment, connected to mains supply by approved ADAPTER	N
3.2.1.1	Connection to an a.c. mains supply	3° 20' V	N
3.2.1.2	Connection to a d.c. mains supply		N
3.2.2	Multiple supply connections	V 357	N
3.2.3	Permanently connected equipment		N «
41. de 18 de 1	Number of conductors, diameter (mm) of cable and conduits	1 CM	
3.2.4	Appliance inlets	O V	N N
3.2.5	Power supply cords	V 43	N
3.2.5.1	AC power supply cords	The state of the s	N
Comple	Туре	dr. jer Chir	
	Rated current (A), cross-sectional area (mm²), AWG	477 - 90	
3.2.5.2	DC power supply cords	(4)	N

The results shownein this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 15 of 52

	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
3.2.6	Cord anchorages and strain relief	_ %,	N	
4	Mass of equipment (kg), pull (N)			
	Longitudinal displacement (mm)	- 4.8° O		
3.2.7	Protection against mechanical damage	.**	N	
3.2.8	Cord guards		4 N	
1	D (mm); test mass (g)	*		
41 100	Radius of curvature of cord (mm)			
3.2.9	Supply wiring space		N	

3.3	Wiring terminals for connection of external conductors	* A. A.	N
3.3.1	Wiring terminals	As Sell and As a	N
3.3.2	Connection of non-detachable power supply cords	*** ¿O**	N
3.3.3	Screw terminals		N
3.3.4	Conductor sizes to be connected	4	N
, de	Rated current (A), cord/cable type, cross-sectional area (mm²):		
3.3.5	Wiring terminal sizes	3d C	N
GC C	Rated current (A), type and nominal thread diameter (mm)	,	
3.3.6	Wiring terminals design		N
3.3.7	Grouping of wiring terminals	, 4: X	N
3.3.8	Stranded wire	a Maria C	N

3.4	Disconnection from the mains supply		N
3.4.1	General requirement	Class III equipment, connected to mains supply by approved ADAPTER.	N
3.4.2	Disconnect devices	3 3 6	N
3.4.3	Permanently connected equipment	4 5° C''	N
3.4.4	Parts which remain energized	S O V	N N
3.4.5	Switches in flexible cords	40	N
3.4.6	Single-phase equipment and d.c. equipment		N
3.4.7	Three-phase equipment		N
3.4.8	Switches as disconnect devices		N
3.4.9	Plugs as disconnect devices	C' V	N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 16 of 52

EN 60950-1					
Clause	Requirement – Test		Result – Remark		Verdict
3.4.10	Interconnected equipment			of god	N
3.4.11	Multiple power sources	4.			N

3.5	Interconnection of equipment		Р
3.5.1	General requirements		# P
3.5.2	Types of interconnection circuits	SELV circuit only.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnections.	N
3.5.4	Data ports for additional equipment		Р

4	PHYSICAL REQUIREMENTS	₹	Р
4.1	Stability	Hand-held equipment	N
A Continue	Angle of 10°	· 29.5	N
40°60	Test: force (N)	67 0	N

4.2	Mechanical strength	45. 30	Р
4.2.1	General	See below	Р
	Rack-mounted equipment.	45.75	N
4.2.2	Steady force test, 10 N		N
4.2.3	Steady force test, 30 N	C V	N 🚓
4.2.4	Steady force test, 250 N	250N applied to outer enclosure. No energy or other hazards.	Р
4.2.5	Impact test		N
Mary Mary	Fall test	1. The state of th	N
O"	Swing test	30 V	N
4.2.6	Drop test; height(m):	1m; No damage of the enclosure, no energy hazards or damage to enclosure integration after the test.	P
4.2.7	Stress relief test	70℃, 7hours, no hazard.	Р
4.2.8	Cathode ray tubes	No cathode ray tube.	N
	Picture tube separately certified	0	N
4.2.9	High pressure lamps	No high pressure lamp	N
4.2.10	Wall or ceiling mounted equipment; force (N):	Hand-held equipment	N

4.3	Design and construction	2 % 2 6	Р
4.3.1	Edges and corners	Edges and corners are rounded.	Р
4.3.2	Handles and manual controls; force (N)	0	N 4

The results shown and the sample(s) test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 17 of 52

	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
4.3.3	Adjustable controls	No such adjustable control.	N	
4.3.4	Securing of parts	No loosening of parts is likely to occur.	Р	
4.3.5	Connection of plugs and sockets	IEC60083 and IEC60320 connectors are not used in equipment.	P	
4.3.6	Direct plug-in equipment	Not direct plug-in equipment.	N	
45.0	Torque		N	
	Compliance with the relevant mains plug standard		N	
4.3.7	Heating elements in earthed equipment	No heating elements.	N	
4.3.8	Batteries	No battery	N	
	-Overcharging of a rechargeable battery	200	N	
*	-Unintentional charging of a non-rechargeable battery		N	
100	-Reverse charging of a rechargeable battery	67 20	N	
	-Excessive discharging rate for any battery	O V .*	N	
4.3.9	Oil and grease	No Oil and grease.	N	
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N	
4.3.11	Containers for liquids or gases	No containers for liquids or gases	N	
4.3.12	Flammable liquids	The equipment does not contain flammable liquid.	N	
	Quantity of liquid (I)	*	N	
7	Flash point (°C)	* A. Y.	N	
4.3.13	Radiation; type of radiation	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Р	
4.3.13.1	General		Р	
4.3.13.2	Ionizing radiation	No ionizing radiation	N	
	Measured radiation (pA/kg)			
*	Measured high-voltage (kV)			
A State of the sta	Measured focus voltage (kV)			
The sales	CRT markings			
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	♠ N	
_	Part, property, retention after test, flammability classification	V	N	
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	10/1 _10/1	N	
4.3.13.5	Lasers (including laser diodes) and LEDs	LEDs for indicator only comply with class 1 requirement	Р	
4.3.13.5.1	Lasers (including laser diodes)		N	
	Laser class	()		

The results shown and his test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 18 of 52

EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
4.3.13.5.2	Light emitting diodes (LEDs)	Class 1	
4.3.13.6	Other types		N

4.4	Protection against hazardous moving parts		N
4.4.1	General	No hazardous moving parts.	N
4.4.2	Protection in operator access areas	*. 43° C	N
The state of the s	Household and home/office document/media shredders		N
4.4.3	Protection in restricted access locations		N
4.4.4	Protection in service access areas		N
4.4.5	Protection against moving fan blades	10 July 10 10 10 10 10 10 10 10 10 10 10 10 10	N
4.4.5.1	General	. 477	N
Copyel	Not considered to cause pain or injury. a)	10	N
	Is considered to cause pain, not injury. b)	,0 % »	N
V	Considered to cause injury. c)	**	N
4.4.5.2	Protection for users	10 10 10 10 10 10 10 10 10 10 10 10 10 1	N
9	Use of symbol or warning	. 47	N
4.4.5.3	Protection for service persons	47.79	N
	Use of symbol or warning:	_%//	N

4.5	Thermal requirements		Р
4.5.1	General	1 1 1 1 C	Р
4.5.2	Temperature tests	(see appended table 4.5)	Р
0	Normal load condition per Annex L		
4.5.3	Temperature limits for materials	(see appended table 4.5)	Р
4.5.4	Touch temperature limits	(see appended table 4.5)	Р
4.5.5	Resistance to abnormal heat	No thermoplastic parts on which parts at hazardous voltage are directly mounted.	N

4.6	Openings in enclosures		N
4.6.1	Top and side openings	V	N
Brain Co	Dimensions (mm)	201	
4.6.2	Bottoms of fire enclosures	4. 38	N
-	Construction of the bottom:	27/ 57	
4.6.3	Doors or covers in fire enclosures	A	N 🦓

The results shown and his test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 19 of 52

	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
4.6.4	Openings in transportable equipment	- Marie 1971	N	
4.6.4.1	Constructional design measures	45 9	N	
77	Dimensions(mm)	24.5° C	N	
4.6.4.2	Evaluation measures for larger openings	7	N	
4.6.4.3	Use of metallized parts		N	
4.6.5	Adhesives for constructional purposes	No adhesives for constructional purpose.	N	
Mary Mary	Conditioning temperature (°C), time (weeks):	5,5° (5,5)		

4.7	Resistance to fire	20	Р
4.7.1	Reducing the risk of ignition and spread of flame	Use of plastic with the required flammability classes.	P
K. W. Carlot	Method 1, selection and application of components wiring and materials	Method 1 used	Р
	Method 2, application of all of simulated fault condition tests	_ CO	N
4.7.2	Conditions for a fire enclosure	See appended table 1.5.1	Р
4.7.2.1	Parts requiring a fire enclosure	Fire enclosure used	N
4.7.2.2	Parts not requiring a fire enclosure	Unit supplied by external power sources complying with LPS or internal battery which complied with LPS, internal components are mounted on PCB rated V-0.	P
4.7.3	Materials	7	P
4.7.3.1	General	The state of the s	J P
4.7.3.2	Materials for fire enclosures	See appended table 1.5.1	Р
4.7.3.3	Materials for components and other parts outside fire enclosures		N
4.7.3.4	Materials for components and other parts inside fire enclosures	Internal components except small parts are V-2 or better.	Р
4.7.3.5	Materials for air filter assemblies	No air filter assemblies	N
4.7.3.6	Materials used in high-voltage components	No high voltage components.	N

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS	
5.1	Touch current and protective conductor current	N
5.1.1	General	N
5.1.2	Equipment under test (EUT)	N
5.1.2.1	Single connection to an a.c. mains supply	N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 20 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
5.1.2.2	Redundant multiple connections to an a.c. mains supply	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N ®
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		N
5.1.3	Test circuit		N
5.1.4	Application of measuring instrument	3,7	N
5.1.5	Test procedure	15 TO	N
5.1.6	Test measurements	A Significant Company	N
1	Test voltage (V)	O. V	N
	Measured touch current (mA)		N
	Max. allowed touch current (mA)	V 3.7	N
	Measured protective conductor current (mA):	The second second	N
k acom	Max. allowed protective conductor current (mA) .:	· 43° .O	N
5.1.7	Equipment with touch current exceeding 3.5 mA:	.0"	N
5.1.7.1	General	O V	N
5.1.7.2	Simultaneous multiple connections to the supply	V	N 🦪
5.1.8	Touch currents to and from telecommunication networks and cable distribution systems and from telecommunication networks		N
5.1.8.1	Limitation of the touch current to a telecommunication network and a cable distribution system		N
- /	Test voltage (V)	* A. J.	N
14. 3	Measured touch current (mA)	437 237 C	N
	Max. allowed touch current (mA)	45 CV	N
5.1.8.2	Summation of touch currents from telecommunication networks		N
-	a)EUT with earthed telecommunication ports:	2.30	N
The state of the s	b)EUT whose telecommunication ports have no reference to protective earth	3 3 C	N

5.2	Electric strength	6) V	N
5.2.1	General	Class III equipment	N N
5.2.2	Test procedure	. 57	N

5.3	Abnormal operating and fault conditions	477	Р
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	Р

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 21 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
5.3.2	Motors	No motors	N	
5.3.3	Transformers	No transformers	N	
5.3.4	Functional insulation:	See appended table 5.3. Complies with c)	Р	
5.3.5	Electromechanical components		N	
5.3.6	Audio amplifiers in ITE		N	
5.3.7	Simulation of faults	Result see appended table 5.3.	Р	
5.3.8	Unattended equipment	8,0° 40,0° - O	N	
5.3.9	Compliance criteria for abnormal operating and fault conditions	No flame emitted, no molten material emitted, no deformation of enclosure	P	
5.3.9.1	During the tests	No hazards.	Р	
5.3.9.2	After the tests	No fire, no danger.	Р	

6	CONNECTION TO TELECOMMUNICATION NETWORKS	N
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	N
6.1.1	Protection from hazardous voltages	N
6.1.2	Separation of the telecommunication network from earth	
6.1.2.1	Requirements	N
	Test voltage (V)	
V	Current in the test circuit (mA):	
6.1.2.2	Exclusions	N

6.2	Protection of equipment users from overvoltages on telecommunication networks		N
6.2.1	Separation requirements	·	N
6.2.2	Electric strength test procedure	V . 3	N
6.2.2.1	Impulse test	4.7	N
6.2.2.2	Steady-state test	No insulation breakdown	N
6.2.2.3	Compliance criteria	Compliance	N

6.3	Protection of the telecommunication wiring system from overheating		N
*	Max. output current (A)		
COLUM	Current limiting method	4 × 6	

7	CONNECTION TO CABLE DISTRIBUTION SYSTEMS	N	Ś
---	--	---	---

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 22 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
7.1	General	\$ 18 J. 18 J	N	
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N	
7.3	Protection of equipment users from overvoltages on the cable distribution system		N	
7.4	Insulation between primary circuits and cable distribution systems		N	
7.4.1	General	O. V	N	
7.4.2	Voltage surge test		N	
7.4.3	Impulse test	V	√ N	

The results showe in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance

Tel: (86-755) 29081955 Fax: (86-755) 26008484 Http://www.agc-cert.com E-mail: agc@agc-cert.com Add: 2F., No.2 Building, Huafeng No.1 Technical Industrial Park, Sanwei, Xixiang, Baoan District, Shenzhen



Page 23 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT	AND FIRE	N	
A.1	Flammability test for fire enclosures of movable exceeding 18 kg, and of stationary equipment (see		N	
A.1.1	Samples:	.9/		
Q	Wall thickness (mm):	V .		
A.1.2	Conditioning of samples; temperature (°C):		N	
A.1.3	Mounting of samples:	10 10 10 10 10	N	
A.1.4	Test flame (see IEC 60695-11-3)		N	
	Flame A, B, C or D:	7.0		
A.1.5	Test procedure		N	
A.1.6	Compliance criteria	- 10 M	N	
18 de	Sample 1 burning time (s):			
Constant	Sample 2 burning time (s):	7 4/ 20		
	Sample 3 burning time (s):	.0		
A.2	Flammability test for fire enclosures of movable ed exceeding 18 kg, and for material and component 4.7.3.2 and 4.7.3.4)	quipment having a total mass not is located inside fire enclosures (see	N	
A.2.1	Samples, material:			
	Wall thickness (mm):			
A.2.2	Conditioning of samples		N 🚲	
A.2.3	Mounting of samples:	15	N	
A.2.4	Test flame (see IEC 60695-11-4)	4.7	N	
1/4	Flame A, B or C:	the state of the s		
A.2.5	Test procedure	19.5° C.7° V	N	
A.2.6	Compliance criteria	_0	N	
	Sample 1 burning time (s):			
*	Sample 2 burning time (s):	45		
A. 100 M	Sample 3 burning time (s):	(A) 2% (C)		
A.2.7	Alternative test acc. To IEC 60695-2-2, cl. 4 and 8	, C &	N	
	Sample 1 burning time (s):			
	Sample 2 burning time (s):	W 40 10 10 10 10 10 10 10 10 10 10 10 10 10		
S. Carlo	Sample 3 burning time (s):	29/ -4/		
A.3	Hot flaming oil test (see 4.6.2)		N	
A.3.1	Mounting of samples	24/	N	
A.3.2	Test procedure	40 V	N	

The results shown and his test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 24 of 52

EN 60950-1				
Clause	Requirement – Test		Result – Remark	Verdict
A.3.3	Compliance criterion	6		N S

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	L CONDITIONS (see 4.7.2.2 and	N
B.1	General requirements	No motor	N N
12	Position	* **/	
20 100	Manufacturer	100 000	
The second	Туре	77 29/	
)	Rated values		
B.2	Test conditions		N
B.3	Maximum temperatures	10 10 10	N
B.4	Running overload test	N 0.74 -24/	N
B.5	Locked-rotor overload test	200	N
	Test duration (days)		
V	Electric strength test: test voltage (V)	1	
B.6	Running overload test for d.c. motors in secondary circuits		N
B.6.1	General	, 45° LO	N
B.6.2	Test procedure	677	N ,
B.6.3	Alternative test procedure	.0	N,
B.6.4	Electric strength test; test voltage (V)	9	N
B.7	Locked-rotor overload test for d.c. motors in seco	ndary circuits	N
B.7.1	Test procedure	18 pm	N
B.7.2	Alternative test procedure; test time (h)	10 V	N
B.7.3	Electric strength test		N
B.8	Test for motors with capacitors		N
B.9	Test for three-phase motors		N 🗨
B.10	Test for series motors	87 67 LO	N
A SERVICE OF	Operating voltage (V)	() () () () () ()	

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N
a.T.	Position	No transformers	
A COLON	Manufacturer:	20	
	Type:	47	
	Rated values:	-0' V	

The results shown and his test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 25 of 52

	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
	Method of protection	* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
C.1	Overload test	the state of the s	N		
C.2	Insulation	2.43.5° G	N 🔷		
6	Protection from displacement of windings:	- 77	N		

D ,	ANNEX D, MEASURING INSTRUMENTS F	OR TOUCH-CURRENT TESTS (see 5.1.4)	N
D.1	Measuring instrument	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
D.2	Alternative measuring instrument	3 6 6 7	N

E	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES	N
1000	(see 2.10)	

G	ANNEX G, ALTERNATIVE METHOD FOR DETERI	MINING MINIMUM CLEARANCES	N
G.1	Clearances	14 3 de 1	N
G.1.1	General	4/ _4/	N
G.1.2	Summary of the procedure for determining minimum clearances		N
G.2	Determination of mains transient voltage (V):	0	N, 4
G.2.1	AC mains supply	7	N
G.2.2	DC mains supply		N
G.2.3	Unearthed DC mains supply:	, 40 m/	N
G.2.4	Battery operation	30 V	N
G.3	Determination of telecommunication network transient voltage (V):	*	N
G.4	Determination of required withstand voltage (V) . :	15x 3 5 4 11	M N
G.4.1	Mains transients and internal repetitive peaks:	- 3, 23, G	N
G.4.2	Transients from telecommunication networks:	F 67 20	N
G.4.3	Combination of transients		N
G.4.4	Transients from cable distribution systems	4	N
G.5	Measurement of transient levels (V):	- Par 2 1976°	N
Callaga	a) Transients from a mains supply	4:30	N
	For an a.c. mains supply	4 Tet 8	N
	For a d.c. mains supply	C V	N
7.5	b) Transients from a telecommunication network	(C)	N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Thermostat endurance test; operating voltage

Thermal cut-out reliability

Stability of operation

Temperature limiter endurance; operating voltage

Report No.: AGC01180160501ES01

Page 26 of 52

Ν

Ν

Ν

Ν

	EN 60950-		
Clause	Requirement – Test	Result – Remark	Verdict
G.6	Determination of minimum clearances:	11,38	N
2	A CO		
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)	24,8	N
6	.		45.30
J	ANNEX J, TABLE OF ELECTROCHEMICAL PO	TENTIALS (see 2.6.5.6)	A N
1	Metal used	♦ , 45 \$	e -
A design			
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 an	d 5.3.7)	N
K.1	Making and breaking capacity	_0	N
K.2	Thermostat reliability; operating voltage (V):	· .	N

L	ANNEX L, NORMAL LOAD CONDITIONS FO BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5		P
L.1	Typewriters		N 🚓
L.2	Adding machines and cash registers	(3)	N
L.3	Erasers	V	N
L.4	Pencil sharpeners	15.75	N
L.5	Duplicators and copy machines	11.1° C 1°	N
L.6	Motor-operated files	6 0	N
L.7	Other business equipment	*	P

M	ANNEX M, CRITERIA FOR TELEPHONE RINGIN	G SIGNALS (see 2.3.1)	N
M.1	Introduction		N
M.2	Method A	0	N
M.3	Method B	4	N
M.3.1	Ringing signal		N
M.3.1.1	Frequency (Hz):	45.50	
M.3.1.2	Voltage (V)	2 3 c C	
M.3.1.3	Cadence; time (s), voltage (V)	C' V	
M.3.1.4	Single fault current (mA):	<u> </u>	

The results snowpin this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by ACC, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance

K.3

K.4

K.5

K.6



Page 27 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
M.3.2	Tripping device and monitoring voltage:	* 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	4 P. C.	N
M.3.2.2	Tripping device	.4/	N
M.3.2.3	Monitoring voltage (V)	<i>y</i>	N
***		<u> </u>	-
N # The state of t	ANNEX N, IMPULSE TEST GENERATORS (see clause G.5)	2.10.3.4, 6.2.2.1, 7.3.2 and	N
N.1	ITU-T impulse test generators	, O, A	N
N.2	IEC 60065 impulse test generator		N
	45° 45° 20		A Argue
P. *	ANNEX P, NORMATIVE REFERENCES	5 S	P
R _{ad} ol ^{og}	0'	7 47 20	
Q	ANNEX Q, Voltage dependent resistors (VDRS)	(see 1.5.9.1)	N
V	-Preferred climatic categories	. V	N
	-Maximum continuous voltage	V 4	N A
·	-Combination pulse current	57 67	N
	Body of the VDR Test according to IEC 60695- 11-5	23 CO	N
	Body of the VDR. Flammability class of material (min V-1):	O V	N

R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES	
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6)	N N
R.2	Reduced clearances (see 2.10.3)	N N

S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)	
S.1	Test equipment	N N
S.2	Test procedure	N
S.3	Examples of waveforms during impulse testing	N Ass

T	ANNEX T, GUIDANCE ON P	ROTECTION AGAINST IN	GRESS OF WATER	N
	(see 1.1.2)			

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance

Tel: (86-755) 29081955 Fax: (86-755) 26008484 Http://www.agc-cert.com E-mail: agc@agc-cert.com Add: 2F., No.2 Building, Huafeng No.1 Technical Industrial Park, Sanwei, Xixiang, Baoan District, Shenzhen



Page 28 of 52

	EN 60950-	1	
Clause	Requirement – Test	Result – Remark	Verdict
U	ANNEX U, INSULATED WINDING WIRES FOR INSULATION (see 2.10.5.4)	USE WITHOUT INTERLEAVED	N
V	ANNEX V, AC POWER DISTRIBUTION SYSTEM	MS (see 1.6.1)	N 💨
V.1	Introduction	9	N
V.2	TN power distribution systems	4 4 1	N
20 18 35			9
N grand	ANNEX W, SUMMATION OF TOUCH CURREN	rs	N
W.1	Touch current from electronic circuits		N
W.1.2	Earthed circuits		N
W.2	Interconnection of several equipments		N
W.2.1	Isolation		N
W.2.2	Common return, isolated from earth	/ _*/	N
W.2.3	Common return, connected to protective earth		N
V			
X	ANNEX X, MAXIMUM HEATING EFFECT IN TR C.1)	ANSFORMER TESTS (see clause	N
X.1	Determination of maximum input current	. 45,00	N
X.2	Overload test procedure	4,3	N
	3.7 47	-O. A.	
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONIN	NG TEST (see 4.3.13.3)	N
Y.1 <	Test apparatus		N
Y.2	Mounting of test samples	1.47	N
Y.3	Carbon-arc light-exposure apparatus	10 V	N
Y.4	Xenon-arc light exposure apparatus		N
	(4) 4 Jr. 4	V at	A Strange
Z	ANNEX Z, OVERVOLTAGE CATEGORIES(see	2.10.3.2 and Clause G.2)	N
A sold of	-0"	a) a) .O	7
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	10	N
	V 350 50		Es Tra
ВВ	ANNEX BB, CHANGES IN THE SECOND EDITI	ON	
	*** O' &	87 67°	
CC	ANNEX CC, Evaluation of integrated circuit (IC	c) circuit limiters	N
CC.1	General	437	N
CC.2	Test program 1		N

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 29 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
CC.3	Test program 2	11.3	N	
CC.4	Test program 3		N	
CC.5	Compliance:	_ 44,8° G	N	

DD	ANNEX DD, requirements for the mounting means of rack-mounted equipment	
DD.1	General	N
DD.2	Mechanical strength test, variable N:	N
DD.3	Mechanical strength test, 250N, including end stops:	N
DD.4	Compliance	N

EE	ANNEX EE, Household and home/office docum	ent/media shredders	N
EE.1	General	7 247 69	Ν
EE.2	Marking and instructions	, U - 19 4	Ν
	Use of markings or symbols	7	Ν
S	Information of user instructions, maintenance and/or servicing instructions:		N
EE.3	Compliance	7 3 m	Ν
EE.4	Disconnection of power to hazardous moving parts:	637 2	N
6	Use of markings or symbols:	3	Ν
EE.5	Protection against hazardous moving parts		Ν
44	Test with test finger (figure 2A)	de de la companya de	Ν
	Test with wedge probe (figure EE1 and EE2):	## 61° V	Ν

The results shown and his test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Report No.: AGC01180160501ES01 Page 30 of 52

				EN 60950-1			
Clause	Requirem	ent – Test			Result – Re	mark	Verdict
	EN 60950-	-1:2006/A11:2	009/A1:2010/	A12:2011 – CEN	NELEC COMM	ON MODIFICATIONS	S
Contents (A2:2013)	Annex ZA Annex ZB	ollowing annex (normative) (normative) (informative)	Normative ref publications v publications Special nation	ferences to intervith their corresponding	oonding Europe		3 P
General		the —country to the following		eference docur	nent (IEC 6095	0-1:2005)	Р
	1.4.8	Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	
	1.5.8	Note 2	1.5.9.4	Note	1.7.2.1	Note 4, 5 & 6	ATT. WATER
	2.2.3	Note	2.2.4	Note	2.3.2	Note	Sold Cours
	2.3.2.1	Note 2	2.3.4	Note 2	2.6.3.3	Note 2 & 3	- 50
	2.7.1	Note	2.10.3.2	Note 2	2.10.5.13	Note 3	
	3.2.1.1	Note	3.2.4	Note 3	2.5.1	Note 2	
	4.3.6	Note 1 & 2	4.7	Note 4	4.7.2.2	Note	
	4.7.3.1	Note 2	5.1.7.1	Note 3 & 4	5.3.7	Note 1	-
	6	Note 2 & 5	6.1.2.1	Note 2	6.1.2.2	Note	20
	6.2.2	Note	6.2.2.1	Note 2	6.2.2.2	Note	
	7.1	Note 3	7.2	Note	7.3	Note 1 & 2	V 1
	G.2.1	Note 2	Annex H	Note 2			4
General A1:2010)		the "country" i		ference docume	ent (IEC 60950-	-1:2005/A1:2010)	Р
	1.5.7.1	Note		6.1.2.1	Note 2		
C Yes	6.2.2.1	Note 2		EE.3	Note		
General (A2:2013)	according 2.7.1 6.2.2.	to the following Note *	ng list:	ference docume 2.10.3.1 Modification ren	Note 2	-1:2005/A2:2013)	
1.1.1 (A1:2010)	Replace to NOTE 3 The multimedia	he text of NOT ne requirements	E 3 by the foll of EN 60065 me IEC Guide 112	owing. ay also be used t	o meet safety re	Je. 10	

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 31 of 52

	EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict		
	EN 60950-1:2006/A11:2009/A1:2010/A12:2011 - CENE	ELEC COMMON MODIFICATIONS			
1.3.Z1	Add the following subclause: 1.3.Z1 Exposure to excessive sound pressure	, \$** _C** >	N		
	The apparatus shall be so designed and constructed as used for its intended purpose, either in normal operatin conditions, particularly providing protection against exp pressures from headphones or earphones.	g conditions or under fault			
	NOTE Z1 A new method of measurement is described equipment: Headphones and earphones associated with portable a sound pressure level measurement methodology and li General method for "one package equipment", and in Equipment: Headphones and earphones associated with Maximum sound pressure level measurement methodol Part 2: Guidelines to associate sets with headphones of manufacturers.	audio equipment - Maximum imit considerations - Part 1: EN 50332-2, Sound system th portable audio equipment - ology and limit considerations -			
(A12:2011)	In EN 60950-1:2006/A12:2011 Delete the addition of 1.3.Z1 / EN 60950-1:2006 Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:20	010	Р		
1.5.1	Add the following NOTE: NOTE Z1 The use of certain substances in electrical ar restricted within the EU: see Directive 2002/95/EC	7 45 3 de 1	N		
1.7.2.1 (A1:2010)	In addition, for a PORTABLE SOUND SYSTEM, the instituted that excessive sound pressure from earphones and hear		N		
1.7.2.1 (A12.2011)	In EN 60950-1:2006/A12:2011 Delete NOTE Z1 and the addition for Portable Sound Sy Add the following clause and annex to the existing stand	vstem.	N		
	Zx Protection against excessive sound pressure from pe	ersonal music players	N		

The results shownein this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Report No.: AGC01180160501ES01 Page 32 of 52

	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
	EN 60950-1:2006/A11:2009/A1:2010/A12:201	1 – CENELEC COMMON MODIFICATION	ONS	
CC*	Zx.1 General This sub-clause specifies requirements for profrom personal music players that are closely crequirements for earphones and headphones players.	oupled to the ear. It also specifies	N re	
	A personal music player is a portable equipme - is designed to allow the user to listen to reco - primarily uses headphones or earphones that ears; - allows the user to walk around while in use. NOTE 1 Examples are hand-held or body-work players, mobile phones with MP3 type features. A personal music player and earphones or heappersonal music players shall comply with the re-	orded or broadcast sound or video; and at can be worn in or on or around the in portable CD players, MP3 audio is, PDA's or similar equipment.		
	The requirements in this sub-clause are valid f			
	The requirements do not apply: - while the personal music player is connected - while the headphones or earphones are not NOTE 2 An external amplifier is an amplifier w player or the listening device, but which is intermusic player.	ot used. hich is not part of the personal music		
	The requirements do not apply to: hearing aid equipment and professional e NOTE 3 Professional equipment is equipment products sold through normal electronics store equipment.	sold through special sales channels. Al		
50°°	 analogue personal music players (personal reprocessing of the sound signal) that are breading 2015. NOTE 4 This exemption has been allowed been and it is expected that within a few years it will be extended to other technologies. For equipment which is clearly designed or interesting the sound of the so	cought to the market before the end of cause this technology is falling out of use no longer exist. This exemption will not	4	

The results shown and his test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 33 of 52

	EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict	
	EN 60950-1:2006/A11:2009/A1:20	10/A12:2011 – CENELEC COMMON MODIFICATION	NS S	
	 equipment provided as a pack where the acoustic output LAe "programme simulation noise" a personal music player provided listening device, where the ele EN 50332-2, while playing the EN 50332-1. NOTE 1 Wherever the term acoust equivalent sound pressure level La All other equipment shall: a) protect the user from unintention 	equipment that complies with the following: kage (personal music player with its listening device), eq,T is ≤ 85 dBA measured while playing the fixed as described in EN 50332-1; and d with an analogue electrical output socket for a ectrical output is ≤ 27 mV measured as described in e fixed "programme simulation noise" as described in extic output is used in this clause, the 30 s A-weighted Aeq,T is meant. See also Zx.5 and Annex Zx. anal acoustic outputs exceeding those mentioned	N	
	automatically return to an output power is switched off; and c) provide a means to actively inform the equipment is operated with a Any means used shall be acknown operation which allows for an accent acknowledgement does not need cumulative listening time; and NOTE 2 Examples of means inclusalways required. NOTE 3 The 20 h listening time is often and how long the personal in d) have a warning as specified in e) not exceed the following: 1) equipment provided as a pactoutput shall be ≤ 100 dBA measur noise" described in EN 50332-1; a 2) a personal music player provilistening device, the electrical output	ckage (player with Its listening device), the acoustic ured while playing the fixed "programme simulation		
	duration of the song is lower than noise, the warning does not need the song is below the basic limit of song. NOTE 4 Classical music typically which is much lower than the aver player is capable to analyse the sonoise, the warning does not need the song is below the basic limit of For example, if the player is set we average music level of the song is	Ind pressure (long term LAeq,T) measured over the the average produced by the programme simulation to be given as long as the average sound pressure of f 85 dBA. In this case T becomes the duration of the thas an average sound pressure (long term LAeq,T) rage programme simulation noise. Therefore, if the long and compare it with the programme simulation to be given as long as the average sound pressure of f 85 dBA. In the programme simulation noise to 85 dBA, but the stonly 65 dBA, there is no need to give a warning or as the average sound level of the song is not above	,	

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 34 of 52

		EN 60950-1	
Clause	Requirement – Test	Result – Remark	Verdict
	EN 60950-1:2006/A11:2009/A1:2010/	A12:2011 – CENELEC COMMON MODIFICATION	IS
CC *	manual and shall consist of the follow the symbol of Figure 1 with a n the following wording, or similar	ninimum height of 5 mm; and	N
	periods." Figure 1 – War	ning label (IEC 60417-6044) be given through the equipment display during	
	Zx.4 Requirements for listening de	vices (headphones and earphones)	N
	simulation noise" described in EN 503 This requirement is applicable in any or passive), including any available setti	Aeq,T, the input voltage of the fixed "programme	N
C****	50332-1 (and respecting the digital in standard exists that specifies the equ of the listening device shall be ≤ 100. This requirement is applicable in any including any available setting (for exsound feature like equalization, etc.).	xed "programme simulation noise" described in EN terface standards, where a digital interface ivalent acoustic level), the acoustic output LAeq,T	N
	Zx.4.3 Wireless listening devices In wireless mode: - with any playing and transmitting devices described in EN 50332-1; and - respecting the wireless transmission that specifies the equivalent acout with volume and sound settings in the level control, additional sound feat of positions that maximize the metals.	evice playing the fixed programme simulation noise in standards, where an air interface standard exists stic level; and he listening device (for example built-in volume ature like equalization, etc.) set to the combination easured acoustic output for the abovementioned acoustic output LAeq,T of the listening device shall	

The results shownein this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 35 of 52

	EN 60950-1		
Clause	Requirement – Test	Result – Remark	Verdict
	EN 60950-1:2006/A11:2009/A1:2010/A12:2011 - CEN	IELEC COMMON MODIFICATIONS	100
ر دان	Zx.5 Measurement methods Measurements shall be made in accordance with EN sapplicable. Unless stated otherwise, the time interval NOTE Test method for wireless equipment provided with the same provided wit	Γ shall be 30 s.	N N
2.7.1	defined. Replace the subclause as follows:	* **	N
	Basic requirements To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, 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): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment; 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;		
>	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. 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.		N
2.7.2	This subclause has been declared 'void'.		N
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.		N
3.2.5.1	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or "60227 IEC 53" by "H05 VV-F or In Table 3B, replace the first four lines by the following Up to and including 6 0,75 a)	H03 VVH2-F"; H05 VVH2-F2".	N
	Over 6 up to and including 10 (0,75) b) 1,0 Over 10 up to and including 16 (1,0) c) 1,5 In the conditions applicable to Table 3B delete the words "in some countries" in condition a). In NOTE 1, applicable to Table 3B, delete the second sentence.		
3.3.4	In Table 3D, delete the fourth line: conductor sizes for following: Over 10 up to and including 16 1,5 to 2,5 1,5 to 4 Delete the fifth line: conductor sizes for 13 to 16 A		N

The results shown and his test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 36 of 52

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
	EN 60950-1:2006/A11:2009/A1:2010/A12:2011 -	CENELEC COMMON MODIFICATIONS		
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to:		N	
	1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and			
	2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation).		Market San	
A Section of the second	Standards taking into account mentioned Recom demonstrate compliance with the applicable EU l		N	
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.		N Market	
Transfer Williams	Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.		70	
Bibliograph y	Additional EN standards.			

DL 45°	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS	_
	CORRESPONDING EUROPEAN PUBLICATIONS	

EN 60950-1				
Clause	Requirement – Test	Result – Remark	Verdict	
V	ZB ANNEX (normative)	SPECIAL NATIONAL CONDITIONS (EN)		
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.		N	
1.2.13.14	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.		N	
1.5.7.1	In Finland, Norway and Sweden , resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.		N	
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).		N	
1.5.9.4	In Finland , Norway and Sweden , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.		N N	

The results shown and his test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance

Tel: (86-755) 29081955 Fax: (86-755) 26008484 Http://www.agc-cert.com E-mail: agc@agc-cert.com Add: 2F., No.2 Building, Huafeng No.1 Technical Industrial Park, Sanwei, Xixiang, Baoan District, Shenzhen



Page 37 of 52

EN 60950-1					
Clause	Requirement – Test Result – Remark	Verdict			
	ZB ANNEX (normative) SPECIAL NATIONAL CONDITIONS (EN)	679			
1.7.2.1	In Finland , Norway and Sweden , CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.	N			
	The marking text in the applicable countries shall be as follows:				
	In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"				
	In Norway: "Apparatet må tilkoples jordet stikkontakt"				
	In Sweden: "Apparaten skall anslutas till jordat uttag" In Norway and Sweden, the screen of the cable 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 need to be isolated from the screen of a cable distribution system.				
	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 e.g. a retailer.				
	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:				
	"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore 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 installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	N			
	Translation to Norwegian (the Swedish text will also be accepted in Norway): "Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr – og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel- TV nettet."				
	Translation to Swedish:				
A CONTRACTOR OF THE PARTY OF TH	"Utrustning 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 medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."	A. Sandara			
1.7.2.1 (A2:2013)	In Denmark , CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text in Denmark shall be as follows: In Denmark : "Apparatets stikprop	N			

The results shownein this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 38 of 52

	EN 60950-1				
Clause	Requirement – Test Res	sult – Remark	Verdict		
	ZB ANNEX (normative) SPECIAL NATIO	ONAL CONDITIONS (EN)	C 1480		
1.7.5	In Denmark , socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a. For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a.				
1.7.5 (A2:2013)	In Denmark , socket-outlets for providing power to o accordance with the DS 60884-2-D1:2011. For class I equipment the following Standard Sheets DK 1-1d, DK 1-5a or DK 1-7a, with the exception for where the socket-outlets shall be in accordance with 1c, DK 1-1d or DK 1-5a. Socket outlets intended for providing power to Class of 2,5 A shall be in accordance with DS 60884-2-D1 current rating socket outlets shall be in compliance of Sheet DKA 1-3a or DKA 1-3b. Justification the Heavy Current Regulations, 6c	s are applicable: DK 1-3a, DK 1-1c, STATIONARY EQUIPMENT In Standard Sheet DK 1-1b, DK 1-8 II apparatus with a rated current standard sheet DKA 1-4a. Other	N Walter		
2.2.4	In Norway, for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.				
2.3.2	In Finland , Norway and Sweden there are additional requirements for the insulation. See 6.1.2.1 and 6.1.2.2 of this annex.				
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.				
2.6.3.3	In the United Kingdom , the current rating of the circ A.	cuit shall be taken as 13 A, not 16	N		
2.7.1	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.				
2.10.5.13	In Finland , Norway and Sweden , there are addition see 6.1.2.1 and 6.1.2.2 of this annex.		N		
3.2.1.1	In Switzerland , supply cords of equipment having a 10 A shall be provided with a plug complying with Stoff the following dimension sheets: SEV 6532-2.1991 Plug Type 15 SEV 6533-2.1991 Plug Type 11 L+N SEV 6534-2.1991 Plug Type 12 L+N+PE		N		
	In general, EN 60309 applies for plugs for currents of plug and socket-outlet system is being introduced in are according to the following dimension sheets, put SEV 5932-2.1998: Plug Type 25, 3L+N+PE 230/40	Switzerland, the plugs of which blished in February 1998:			
	SEV 5933-2.1998:Plug Type 21, L+N, 250 V, 16A	,4 ³ / _C ³ /			
	SEV 5934-2.1998: Plug Type 23, L+N+PE 250	0 V, 16 A			

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 39 of 52

		EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict		
	ZB ANNEX (normative) SF	PECIAL NATIONAL CONDITIONS (EN)			
3.2.1.1	exceeding13 A shall be provided with Regulations, Section 107-2-D1. CLASS I EQUIPMENT provided with sintended to be used in locations where according to the wiring rules shall be pasheet DK 2-1a or DK 2-5a.	nase equipment having a rated current not a plug according to the Heavy Current socket-outlets with earth contacts or which are protection against indirect contact is required provided with a plug in accordance with standard mase equipment having a RATED CURRENT	N N		
0.04.4	accordance with the Heavy Current Re	ply cord with a plug, this plug shall be in egulations, Section 107-2-D1 or EN 60309-2.	- N		
3.2.1.1	exceeding 10 A shall be provided with Supply cords of single-phase equipme shall be provided with a plug according CLASS I EQUIPMENT provided with sintended to be used in locations where	e equipment having a rated current not a plug according to UNE 20315:1994. ent having a rated current not exceeding 2,5 A g to UNE-EN 50075:1993. socket-outlets with earth contacts or which are a protection against indirect contact is required provided with a plug in accordance with standard	N		
	If poly-phase equipment is provided w accordance with UNE-EN 60309-2.	ith a supply cord with a plug, this plug shall be in	N		
3.2.1.1	In the United Kingdom , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations. NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved				
3.2.1.1	plug conforming to BS 1363 or an approved conversion plug. In Ireland , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997.				
3.2.4	In Switzerland, for requirements see	3.2.1.1 of this annex.	N		
3.2.5.1	In the United Kingdom , a power supp for equipment with a rated current ove	oly cord with conductor of 1,25 mm2 is allowed in 10 A and up to and including 13 A.	N		
3.3.4	In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is: • 1,25 mm² to 1,5 mm² nominal cross-sectional area.				
4.3.6	In the United Kingdom , the torque test with BS 1363 part 1:1995, including At the plug part of DIRECT PLUG-IN EQ 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 13, 12.17 is performed at not less than 12	st is performed using a socket outlet complying mendment 1:1997 and Amendment 2:2003 and UIPMENT shall be assessed to BS 1363: Part 1, 2.13, 12.16 and 12.17, except that the test of 5 °C. Where the metal earth pin is replaced by (ISOD), the requirements of clauses 22.2 and 23	N		

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 40 of 52

EN 60950-1						
Clause	Requirement – Test	Result – Remark	Verdict			
	ZB ANNEX (normativ	e) SPECIAL NATIONAL CONDITIONS (EN)	- No.			
1.3.6	devices shall comply with Statuto	QUIPMENT is known as plug similar devices. Such bry Instrument 526:1997 - National Standards (Electrical plugs, plug similar devices and sockets for	N			
5.1.7.1	In Finland, Norway and Sweden TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s. are permitted only for the following equipment: • STATIONARY PLUGGABLE EQUIPMENT TYPE A that is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and is provided with instructions for the installation of that conductor by a SERVICE PERSON; • STATIONARY PLUGGABLE EQUIPMENT TYPE B; • STATIONARY PERMANENTLY CONNECTED EQUIPMENT. In Finland, Norway and Sweden, add the following text between the first and second					
5.1.2.1			N			
(A1:2010)	paragraph of the compliance class If this insulation is solid, including least consist of either - two layers of thin sheet material below, or - one layer having a distance through the electric strength test below. Alternatively for components, the the insulation consisting of an i					
	kV multiplied by 1,6 (the electric kV), and - is subject to ROUTINE TESTIN test voltage of 1,5 kV.	strength test of 2.10.10 shall be performed using 1,5 G for electric strength during manufacturing, using a				
	It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b). It is permitted to bridge this insulation with a capacitor complying with EN 60384-14:2005, subclass Y2. A capacitor classified Y3 according to EN 60384-14:2005, may bridge this insulation					
	under the following conditions: - 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 EN 60950-1:2006, 6.2.2.1;					
	60384-14:	erformed on all the test specimens as described in EN				
	14, in the sequence of tests as d	be performed before the endurance test in EN 60384- escribed in EN 60384-14.				

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 41 of 52

EN 60950-1						
Clause	Requirement – Test	Result – Remark	Verdict			
	ZB ANNEX (normative	e) SPECIAL NATIONAL CONDITIONS (EN)				
6.1.2.2	CONNECTED EQUIPMENT, PLU intended to be used in a RESTRI bonding has been applied, e.g. in provision for a permanently connected.	n, the exclusions are applicable for PERMANENTLY JGGABLE EQUIPMENT TYPE B and equipment CTED ACCESS LOCATION where equipotential a telecommunication centre, and which has ected PROTECTIVE EARTHING CONDUCTOR and the installation of that conductor by a SERVICE	N			
7.2	annex.	N NETWORK in 6.1.2 being replaced by the term	N			
7.3	In Norway and Sweden, for requ	irements see 1.2.13.14 and 1.7.2.1 of this annex.	N			
7.3	In Norway, for installation conditi	ons see EN 60728-11:2005.	N			

The results showeinthis test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance



Page 42 of 52

1.5.1	TABLE: list of critical components			Р 🧖
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Mark(s) of conformity
Power Supply	Chou Sen Electronics (Shenzhen) Co., Ltd	CS12F050200 FGF	Input: 100-240V~ 50/60Hz, 0.5A output: 5V, 2A (class II , LPS, 40°C)	CE AGC011801 60501ES02
Speaker	Various	Various	4ohm, 3W	## <u>-</u>
Internal wire	Various	Various	24AWG, 80°C	UL AVLV2
РСВ	Various	Various	V-0, 130°C	UL ZPMV2
Enclosure	KINGFA SCI & TECH CO LTD	JH850(o)(##)	Min. 0.75mm, HB or better, 80°C	UL E171666
Alternative	Various	Various	Min. 0.75mm, HB or better, 80°C	UL QMFZ2
Note(s):	10,11	4. 3		

1.6.2	TABLE: 6	electrical data (i	n normal co	nditions)		A. 18. 18.	Р
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status	
Model: A68	W	100	7	A TOTAL	4.		V
5	0.69	2	3.45	A Tologo-	-	Normal operation	A STATE OF THE STA
Model: A48	W	-1		307		1	7834.30
5	0.61	2	3.05			Normal operation	

2.1.1.5c)1) TABLE: max. V, A, VA test				457	70		N
Voltage (rated) (V)		Current	(rated) (A)	Voltage (max.) (V)	Current (max.) VA (r		nax.) (VA)
表 了。	4	Marian di	-,0	V -	45 <u>8</u>	- 1	<i></i>
Note(s): Test bases on battery.							

2.1.1.5c)2)	TABLE: stored energy			N
Capacitance	e C (μF)	Voltage U (V)		Energy E (J)
- 	4, 2			Z O
Note(s):		See See See	23,8	

2.2		TABLE: evaluation of voltage limiting components in SELV circuits	. T.	N
-----	--	---	------	---

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Report No.: AGC01180160501ES01 Page 43 of 52

Component (magazired hatusen)	max. voltage (V)	Voltage Limiting		
Component (measured between)	Vpeak	Vd.c.	Components	
			-6	
	· - 4	· . 6)**	<u> </u>	
Fault test performed on voltage limiting components	Voltage measured	d (V) in SELV circuits	s (V peak or V d.c.)	
- **	-O*	-	A Stranger	
Note(s):	-0	Age of the same	the place	

2.5	TABLE: limited power source measurement					
Measured Uoc (V) with all load circuits disconnected:		Isc (A)		VA		
		Meas.	Limit	Meas.	Limit	
Note(s):		A \$ 1		6		

2.10.2	TABLE: Working v	oltage measurement		N /
Location		RMS voltage (V)	Peak voltage (V)	Comments
	4-3			
	Y- V	4x 3/2/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- V
Note(s):		14 M	O V	体》

2.10.3 and 2.10.4 TABLE: clearance and creepage distance measurements									
Clearance cl and creepage distance dcr at/of:	U p (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required dcr (mm)	dcr (mm)			
O - V 3.7		Or and Con	0 -			No. of the last			
- Angel	47			<u></u>	T	11 10 10			
Note(s):	20			11.	a de la companya de	A STATE OF THE STA			

2.10.5	TABLE: distance through insulation measurements								
Distance t	hrough insulation di at/of:	U r.m.s. (V)	Test voltage (V)	Required di (mm)	di (mm)				
Note(s):		Ed. Andre	Alt a	20					

4.3.8	TABLE: Batteries	1.0	A State of Co.	Cir	N 🦠

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 44 of 52

The tests of 4.3 not available	.8 are appli	cable only	when approp	riate batter	y data is		V	*	N A
Is it possible to	install the b	attery in a	reverse pola	rity position	?	Customize used for ba			N Same
The second	Non-red	chargeable	batteries			Rechargeab	le batterie	s	
	Disch	arging	Uninten-	Cha	rging	Discha	arging	Reverse	Charging
	Meas. current	Manuf. Specs.	tional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	- C *	er de	0	- 1	- 10 m		A de	9	-
Max. current during fault condition	-16	*	The state of the s	-60				- 4	
Test results:	The state of the s					48	Carles and	The same	Verdict
- Chemical leak	s	_(0)		*	- P	- Aredon			N
- Explosion of th	ne battery	T-		. 4	GO CO		-(0		N
- Emission of fla	ame or expu	ılsion of mo	olten metal	The selection of				45	N
- Electric streng	th tests of e	equipment a	after complet	ion of tests				A Salah	N
Note(s):	A STATE OF THE STA	20				A CONTRACTOR			6
		<u> </u>	V	100		14 38	20		
4.3.8 TA	ABLE: Batte	eries		24 300					P 🦠
Battery category	y		<i>A</i>	:	60			4	4
Manufacturer		<u>4</u>		:			*	A Hard	- 9
Type/model				:					
Voltage, Capac	ity				The state of		-7		
Circuit protectio	n diagram			:					4
N/A	3	(h. 3000	Mary Service			1	. 12		4
MARKINGS AN	ID INSTRU	CTIONS (1	.7.13)				40 30	100	Burd
Location of repl	aceable bat	tery		Non-r	eplaceable	Li-ion batte	ry	-C	P
Language(s)				:	A de la com	-0		(0)	
Close to the bat	ttery		45.3	: 🔊	A production of	O	V	15.	
In the servicing	instructions			: (-)			A.	The state of	
In the operating	instructions	s	~	:		100	a de la companya della companya della companya de la companya della companya dell	The second second	
Note(s):	The state of the s			V W		1/2 AT 300			
10	6			400	P	the st			

The results shownein this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance

TABLE: maximum temperatures

4.5



Page 45 of 52

	Test voltage (V)		: 🧷	a):15.0VDC				
mavimum ta	mnorature T of part/ot				allowed			
maximum te	mperature T of part/at	•		a)		b)	Tmax (°C)
Model: A68W			.	41 m	G.		0	
PCB near U	6		45.	88	.1 1 de la companya d		V	130
CE3	4		W Har Har	76	.9			105
CE7	P. ST.	· C	N. S.	77	.4		E. To	105
L8 winding	Mr. de de	20		78	.0	45	a C	110
PCB near U	8	V		81	.6	Market of the second	- 0	130
Internal encl	osure		13. Allen	58	.3	O v	1	105
External end	closure		1	50.5			95	
Model: A48V	V Arguera	57	6	O	V	43	di.	K Mary
PCB near U	6	.0		86	.8	A Common	1	130
CE3	.0"	9		75.2		- 0		105
CE7		49-1	and the second	75	.9	4		105
L8 winding		11. 15. 15. 15. 15. 15. 15. 15. 15. 15.		77	.1			110
PCB near U	8	and a second		80	.5	- n-		130
Internal encl	osure))	-	58	.0	and a second	- April 18 Company	105
External end	closure		~	50	.3		4	95
Ambient		-	4	40)			× *
Tempera	ture T of winding	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	$R_2(\Omega)$	T (°C)	Allowed T _{max} (°C)	Insulation Class
	<u> </u>	- 0			-		dr. Joseph	C

4.5.5	4.5.5 TABLE: ball pressure test of thermoplastic parts					
	allowed impression diameter (mm):	- 47				
Part		Test temperature(°C)	Impression diameter (mm)			
An all de	-V .* .*	(G)	9 -,			
Note(s):	V		V 4.7			

4.7	4.7 TABLE: Resistance to fire						
Part		Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence	
	Y	V	443	- N=		A	

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document on the reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 46 of 52

Note(s): refer to table 1.5.1

5.1	TABLE: touch current measurement			N N
Measure	ed between:	Measured(mA)	Limit(mA)	Comments/conditions
	7-	tr 7 - 10 -	_0	V
Note(s):-	* .*	-C **	V	Ar and are

5.2	TABLE: electric strength	n tests and impulse tests	Walter Commencer	N
Test voltage	e applied between:		Test voltage (V)	Breakdown
C "		W. Jane B. Aller	20	V -
Note(s):	V BY		**	A State of the sta

5.3	TAE	BLE: fault condition	n tests		4	4.7	Р	
K Salar	ambient temperature (°C)					22.6		
3800	rated markings of power supply			· · · · · · · · · · · · · · · · · · ·				
Component	no.	Fault	Test voltage (V)	Test time	Fuse no.	Result		
U1	14.	Pin 1-5, S-C	5	10min		No damage and no hazard	ds.	
U2		Pin 2-5, S-C	5	10min	4	No damage and no hazard	ds.	
U3		Pin 2-5, S-C	5	10min	_E	No damage and no hazard	ds.	
U4	4	Pin 2-5, S-C	5	10min	<u> </u>	No damage and no hazard	ds.	
R4	Charles Co.	S-C	5	10min	W	No damage and no hazard	ds.	
Speaker S-C		5	35min	10 m	Speaker does not work, no	hazards.		
Fault: S-C =	short	circuit, O-C = op	en circuit O-L	= overload		_6	-	
Note:		45	West of the second				40 300	

The results showtein this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by ACC, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com



Page 47 of 52

Attachment A Photos of product



Fig.1 - overview



Fig.2 - overview

The results shown and this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance

Page 48 of 52



Fig.3 - overview



Fig.4 - partview

The results snowpain(this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com





Fig.5 - partview

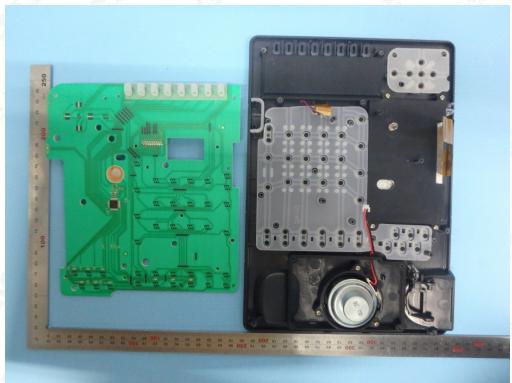


Fig.6 - partview

The results snowpain(this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

E-mail: agc@agc-cert.com



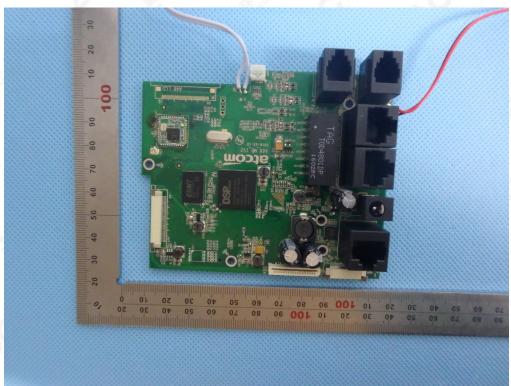


Fig.7 - partview

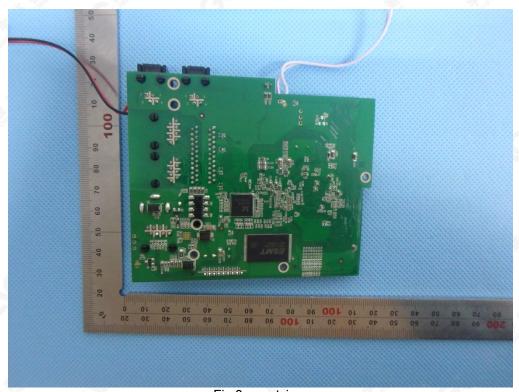


Fig.8 - partview

The results shown and the sample(s) test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGO, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance

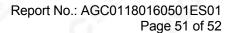






Fig.9 – partview



Fig.10 - overview(A48W)

The results snowpain(this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance



Page 52 of 52

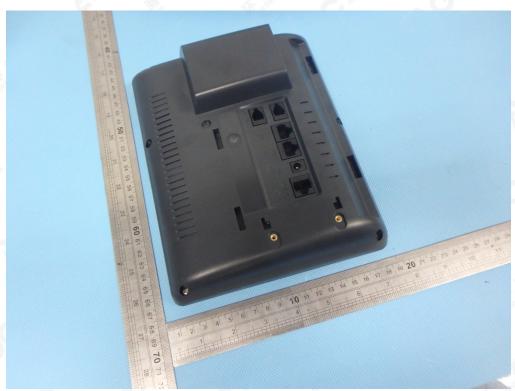


Fig.11 -overview(A48W)

---- END OF REPORT----

The results shown and this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The document is available on request and the brief information for its validation can be assessable and confirmed at http://www.agc-cert.com

Attestation of Global Compliance