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TEST REPORT IEC/EN 60950-1 Information technology equipment – Safety – Part 1: General requirements

	回答题終演見回
Report Number:	CHTSE21010181
Date of issue:	
Tested by (name + signature):	Allen liu Allen Lin Tom Tan Caroline Li Caroline Li
Supervised by (name + signature):	Tom Tan
Approved by (name + signature):	Caroline Li Caroline Li
Name of Testing Laboratory preparing the Report	Shenzhen Huatongwei International Inspection Co., Ltd.
Address:	1/F, Bldg 9, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, Guangdong, China.
Applicant's name:	Timetec Computing Sdn. Bhd.
Address:	No 6, 8 & 10, Jalan BK 3/2, Bandar Kinrara, 47180 Puchong,
	Selangor, Malaysia
Manufacturer's name:	Timetec Computing Sdn. Bhd.
Address::	No 6, 8 & 10, Jalan BK 3/2, Bandar Kinrara, 47180 Puchong,
	Selangor, Malaysia
Test specification:	
Standard:	☑ IEC 60950-1:2005, AMD1:2009, AMD2:2013☑ EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
Test procedure:	Test report
Non-standard test method::	N/A
Test Report Form No:	IEC60950_1G
Test Report Form(s) Originator:	SGS Fimko Ltd
Master TRF::	Dated 2014-02
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General disclaimer:	
The test results presented in this report	relate only to the object tested.

Report No.: CHTSE21010181 Page 2 of 43 Issued: 2021-02-05

Test item description.....: Fingerprint Time Attendance System

Trade Mark.....: FingerTec

Manufacturer:Timetec Computing Sdn. Bhd.Model/Type reference:TA500R, TA500W

Ratings...... Main Unit: 12.0Vd.c., 1.5A

(Internal battery: 7.4V, 2000mAh)

Power Adapter: Input: 100-240Va.c., 50/60Hz, 0.7A MAX;

Output: 12.0Vd.c., 2.0A

Summary of testing:

Tests performed:

The sample(s) tested complies with the requirements of the standard(s)

IEC 60950-1:2005, AMD1:2009, AMD2:2013

The EUTs (equipments under test) passed all relevant tests.

Testing location:

Shenzhen Huatongwei International Inspection Co., Ltd.

1/F, Bldg 9, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, Guangdong, China.

Summary of compliance with National Differences:

N/A

Report No.: CHTSE21010181 Page 3 of 43 Issued: 2021-02-05

Copy of marking plate:

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

(Additional requirements for markings. See 1.7 NOTE)

FingerTec

Fingerprint Time Attendance System

Model: TA500R

0

Input: DC 12V 1.5A

Operating Temperature: 0°C ~ +45°C



Made in Malaysia



SWITCHING ADAPTER 电源供应器/電源供應器

MODEL/型号/型號: ADS-26SGP-12 12024E

INPUT/输入/输入: 100-240V~ 50/60Hz

Max. /最大/最大0. 7A ⊖—€—

OUTPUT/输出/输出: 12V === 2.0A

EFFICIENCY LEVEL: (VI)

CUL US
LISTED

I. T. E

E221556

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undeelred operation. MADE IN CHINA 中国财富产中国股票

深圳欧陆通电子有限公司/深圳歐陸通電子有限公司 SHENZHEN HONOR ELECTRONIC CO., LTD.

(Adapter label)

Report No.: CHTSE21010181 Page 4 of 43 Issued: 2021-02-05

Test item particulars		
Equipment mobility	movable hand-held transportable	
Connection to the mains	 stationary ☐ for building-in ☐ direct plug-in pluggable equipment ☐ type A ☐ type B permanent connection detachable power supply cord non-detachable power supply cord not directly connected to the mains 	
Operating condition	☐ continuous☐ rated operating / resting time:	
Access location:	 □ operator accessible □ restricted access location □ consider in end system □	
Over voltage category (OVC)	☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other: not directly connected to the mains.	
Mains supply tolerance (%) or absolute mains supply values:	N/A	
Tested for IT power systems:	☐ Yes ☑ No	
IT testing, phase-phase voltage (V)	N/A	
Class of equipment	☐ Class I ☐ Class II ☐ Class III ☐ Not classified	
Considered current rating of protective device as part of the building installation (A)	N/A	
Pollution degree (PD)	☐ PD 1 ☐ PD 2 ☐ PD 3	
IP protection class	IP20	
Altitude during operation (m)	Up to 5000	
Altitude of test laboratory (m)	Less than 500	
Mass of equipment (kg)	0.5kg	
Possible test case verdicts:		
- test case does not apply to the test object	N/A	
- test object does meet the requirement	P (Pass)	
- test object does not meet the requirement:	F (Fail)	
Testing		
Date of receipt of test item	2021-02-01	
Date(s) of performance of tests	2021-02-01 to 2021-02-03	
General remarks:		
The test results presented in this report relate only to the This report shall not be reproduced, except in full, without laboratory. "(see Enclosure #)" refers to additional information app "(see appended table)" refers to a table appended to the	out the written approval of the Issuing testing pended to the report.	
Fhroughout this report a \square comma / \boxtimes point is used as the decimal separator.		

Report No.: CHTSE21010181 Page 5 of 43 Issued: 2021-02-05

General product information:

- 1. The equipment is a Fingerprint Time Attendance System, which are used as information technology equipment.
- 2. Ambient temperature is 45°C declared by the manufacturer.
- 3. Equipment is powered by the internal battery which is the integral part.
- 4. The approved adapter with output complying with L.P.S is accessory and used only in the charging mode. (see table 1.5.1 for details)

Abbreviations used in the report:

normal conditions
 functional insulation
 double insulation
 between parts of opposite
 N.C.
 single fault conditions
 basic insulation
 supplementary insulation
 SI

polarity BOP - reinforced insulation RI

Indicate used abbreviations (if any)

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

1 GENERAL P

1.5	Components		Р
1.5.1	General	See below	Р
	Comply with IEC 60950-1 or relevant component standard	(see appended table 1.5.1)	Р
1.5.2	Evaluation and testing of components	Components which are certified to IEC and/or national standards are used correctly within their ratings. Components not covered by IEC standards are tested under the conditions present in the equipment.	Р
1.5.3	Thermal controls	No thermal control used	N/A
1.5.4	Transformers		N/A
1.5.5	Interconnecting cables		N/A
1.5.6	Capacitors bridging insulation	No bridging capacitors	N/A
1.5.7	Resistors bridging insulation	No bridging resistors	N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N/A
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N/A
1.5.8	Components in equipment for IT power systems	Not intended for IT power systems	N/A
1.5.9	Surge suppressors	No surge suppressors	N/A
1.5.9.1	General		N/A
1.5.9.2	Protection of VDRs		N/A
1.5.9.3	Bridging of functional insulation by a VDR		N/A
1.5.9.4	Bridging of basic insulation by a VDR		N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N/A

1.6	Power interface		Р
1.6.1	AC power distribution systems	Not directly connected to the mains	N/A
1.6.2	Input current	(see appended table 1.6.2)	Р
1.6.3	Voltage limit of hand-held equipment		N/A
1.6.4	Neutral conductor	No neutral conductor	N/A

Report No.: CHTSE21010181 Page 7 of 43 Issued: 2021-02-05

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IEC 60950-1				
Clause	Requirement + Test		Result - Remark	Verdict

1.7	Marking and instructions		Р
1.7.1	Power rating and identification markings		Р
1.7.1.1	Power rating marking		Р
	Multiple mains supply connections	Not directly connected to the mains.	N/A
	Rated voltage(s) or voltage range(s) (V)		N/A
	Symbol for nature of supply, for d.c. only		N/A
	Rated frequency or rated frequency range (Hz):	DC input	N/A
	Rated current (mA or A)		N/A
1.7.1.2	Identification markings		Р
	Manufacturer's name or trade-mark or identification mark		Р
	Model identification or type reference:	TA500R, TA500, TA500W	Р
	Symbol for Class II equipment only:	Class III equipment	N/A
	Other markings and symbols:	Additional symbol or marking does not give rise to misunderstanding.	Р
1.7.1.3	Use of graphical symbols		Р
1.7.2	Safety instructions and marking	English version safety instruction provided.	Р
1.7.2.1	General		Р
1.7.2.2	Disconnect devices	Not directly connected to the mains.	N/A
1.7.2.3	Overcurrent protective device	Not directly connected to the mains.	N/A
1.7.2.4	IT power distribution systems		N/A
1.7.2.5	Operator access with a tool		N/A
1.7.2.6	Ozone	No ozone occur.	N/A
1.7.3	Short duty cycles	Continuous operation	N/A
1.7.4	Supply voltage adjustment:	Not adjustable	N/A
	Methods and means of adjustment; reference to installation instructions		N/A
1.7.5	Power outlets on the equipment	No power outlets provided	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)		N/A
1.7.7	Wiring terminals		N/A
1.7.7.1	Protective earthing and bonding terminals	Class III equipment	N/A
1.7.7.2	Terminals for a.c. mains supply conductors		N/A

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	<u> </u>		
1.7.7.3	Terminals for d.c. mains supply conductors		N/A
1.7.8	Controls and indicators		Р
1.7.8.1	Identification, location and marking		Р
1.7.8.2	Colours	Functional indicator only	Р
1.7.8.3	Symbols according to IEC 60417		N/A
1.7.8.4	Markings using figures	No such marking used	N/A
1.7.9	Isolation of multiple power sources		N/A
1.7.10	Thermostats and other regulating devices:	No thermostat or other regulating devices provided	N/A
1.7.11	Durability	The label was subjected to the permanence of marking test. The label was rubbed with cloth soaked with water for 15 sec. And then again for 15 sec. With the cloth soaked with petroleum spirit. After this test there was no damage to the label. The marking on the label did not fade. There was no curling, nor lifting of the label edge.	Р
1.7.12	Removable parts	Marking not located on removable part.	Р
1.7.13	Replaceable batteries:		N/A
	Language(s):		_
1.7.14	Equipment for restricted access locations:	Equipment not intended for installation in restricted access locations.	N/A

2	PROTECTION FROM HAZARDS		Р
2.1	Protection from electric shock and energy hazar	ds	Р
2.1.1	Protection in operator access areas		Р
2.1.1.1	Access to energized parts	Calss III equipment, no hazard voltage.	N/A
	Test by inspection		N/A
	Test with test finger (Figure 2A)		N/A
	Test with test pin (Figure 2B)		N/A
	Test with test probe (Figure 2C)	No TNV circuit	N/A
2.1.1.2	Battery compartments	No TNV circuit.	N/A
2.1.1.3	Access to ELV wiring	No ELV wiring in operator accessible area.	N/A

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	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)		_
2.1.1.4	Access to hazardous voltage circuit wiring	No hazardous voltage wiring in operator accessible area.	N/A
2.1.1.5	Energy hazards:	No energy hazard in operator access area, impossible to bridge battery pins with test finger.	Р
2.1.1.6	Manual controls	No such controls	N/A
2.1.1.7	Discharge of capacitors in equipment	Not directly connected to the mains.	N/A
	Measured voltage (V); time-constant (s)		
2.1.1.8	Energy hazards – d.c. mains supply	Not connect to d.c mains	N/A
	a) Capacitor connected to the d.c. mains supply:		N/A
	b) Internal battery connected to the d.c. mains supply :		N/A
2.1.1.9	Audio amplifiers:	Accordance with 4.2.4 of IEC 60065	Р
2.1.2	Protection in service access areas		N/A
2.1.3	Protection in restricted access locations	Equipment not intended for installation in restricted access locations.	N/A
2.2	SELV circuits	1	Р
2.2.1	General requirements	Class III equipment	Р

2.2	SELV circuits		Р
2.2.1	General requirements	Class III equipment	Р
2.2.2	Voltages under normal conditions (V):	Within SELV	Р
2.2.3	Voltages under fault conditions (V):	Within SELV	Р
2.2.4	Connection of SELV circuits to other circuits:	SELV circuit	Р

2.3	TNV circuits		N/A
2.3.1	Limits	No TNV circuits	N/A
	Type of TNV circuits:		_
2.3.2	Separation from other circuits and from accessible parts		N/A
2.3.2.1	General requirements		N/A
2.3.2.2	Protection by basic insulation		N/A
2.3.2.3	Protection by earthing		N/A
2.3.2.4	Protection by other constructions:		N/A
2.3.3	Separation from hazardous voltages		N/A
	Insulation employed:		

Report No.: CHTSE21010181 Page 10 of 43 Issued: 2021-02-05

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.3.4	Connection of TNV circuits to other circuits		N/A
	Insulation employed:		
2.3.5	Test for operating voltages generated externally		N/A

2.4	Limited current circuits		N/A
2.4.1	General requirements	No limited current circuits	N/A
2.4.2	Limit values		N/A
	Frequency (Hz)		_
	Measured current (mA)		_
	Measured voltage (V)		
	Measured circuit capacitance (nF or μF)		
2.4.3	Connection of limited current circuits to other circuits		N/A

2.5	Limited power sources		Р
	a) Inherently limited output		N/A
	b) Impedance limited output		N/A
	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	(see appended table 2.5)	Р
	Use of integrated circuit (IC) current limiters		N/A
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA):		_
	Current rating of overcurrent protective device (A) .:		_

2.6	Provisions for earthing and bonding		N/A
2.6.1	Protective earthing Class III equipment	Class III equipment	N/A
2.6.2	Functional earthing		N/A
	Use of symbol for functional earthing		N/A
2.6.3	Protective earthing and protective bonding conductors		N/A
2.6.3.1	General		N/A
2.6.3.2	Size of protective earthing conductors		N/A
	Rated current (A), cross-sectional area (mm²), AWG:		_
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area (mm²), AWG:		—

Report No.: CHTSE21010181 Page 11 of 43 Issued: 2021-02-05

Report No	b.: CHTSE21010181 Page 11 of 43		Issued: 2021-02-05
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Protective current rating (A), cross-sectional area (mm²), AWG		
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω) , voltage drop (V) , test current (A) , duration (min)		N/A
2.6.3.5	Colour of insulation:		N/A
2.6.4	Terminals		N/A
2.6.4.1	General		N/A
2.6.4.2	Protective earthing and bonding terminals		N/A
	Rated current (A), type, nominal thread diameter (mm):		_
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5	Integrity of protective earthing		N/A
2.6.5.1	Interconnection of equipment		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A
2.6.5.3	Disconnection of protective earth		N/A
2.6.5.4	Parts that can be removed by an operator		N/A
2.6.5.5	Parts removed during servicing		N/A
2.6.5.6	Corrosion resistance		N/A
2.6.5.7	Screws for protective bonding		N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A

2.7	Overcurrent and earth fault protection in primary circuits		N/A
2.7.1	Basic requirements Not directly connected to the mains.	N/A	
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not simulated in 5.3.7		N/A
2.7.3	Short-circuit backup protection		N/A
2.7.4	Number and location of protective devices:		N/A
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel:		N/A

2.8	Safety interlocks		N/A
2.8.1	General principles	No safety interlocks	N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A

Report No.: CHTSE21010181 Page 12 of 43 Issued: 2021-02-05

	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
2.8.4	Fail-safe operation		N/A	
	Protection against extreme hazard		N/A	
2.8.5	Moving parts		N/A	
2.8.6	Overriding		N/A	
2.8.7	Switches, relays and their related circuits		N/A	
2.8.7.1	Separation distances for contact gaps and their related circuits (mm)		N/A	
2.8.7.2	Overload test		N/A	
2.8.7.3	Endurance test		N/A	
2.8.7.4	Electric strength test		N/A	
2.8.8	Mechanical actuators		N/A	

2.9	.9 Electrical insulation		N/A
2.9.1	Properties of insulating materials	Functional insulation only	N/A
2.9.2	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C):		
2.9.3	Grade of insulation		N/A
2.9.4	Separation from hazardous voltages		N/A
	Method(s) used:		_

2.10	Clearances, creepage distances and distances through insulation		N/A
2.10.1	General	Functional insulation only	N/A
2.10.1.1	Frequency		N/A
2.10.1.2	Pollution degrees		N/A
2.10.1.3	Reduced values for functional insulation		N/A
2.10.1.4	Intervening unconnected conductive parts		N/A
2.10.1.5	Insulation with varying dimensions		N/A
2.10.1.6	Special separation requirements		N/A
2.10.1.7	Insulation in circuits generating starting pulses		N/A
2.10.2	Determination of working voltage		N/A
2.10.2.1	General		N/A
2.10.2.2	RMS working voltage		N/A
2.10.2.3	Peak working voltage		N/A
2.10.3	Clearances		N/A
2.10.3.1	General		N/A
2.10.3.2	Mains transient voltages		N/A
	a) AC mains supply		N/A

Report No.: CHTSE21010181 Page 13 of 43 Issued: 2021-02-05

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	b) Earthed d.c. mains supplies:		N/A
	c) Unearthed d.c. mains supplies		N/A
	d) Battery operation		N/A
2.10.3.3	Clearances in primary circuits		N/A
2.10.3.4	Clearances in secondary circuits		N/A
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply:		N/A
2.10.3.7	Transients from d.c. mains supply:		N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems		N/A
2.10.3.9	Measurement of transient voltage levels		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply:		N/A
	For a d.c. mains supply:		N/A
	b) Transients from a telecommunication network :		N/A
2.10.4	Creepage distances		N/A
2.10.4.1	General		N/A
2.10.4.2	Material group and comparative tracking index		N/A
	CTI tests:		_
2.10.4.3	Minimum creepage distances		N/A
2.10.5	Solid insulation		N/A
2.10.5.1	General		N/A
2.10.5.2	Distances through insulation		N/A
2.10.5.3	Insulating compound as solid insulation		N/A
2.10.5.4	Semiconductor devices		N/A
2.10.5.5.	Cemented joints		N/A
2.10.5.6	Thin sheet material – General		N/A
2.10.5.7	Separable thin sheet material		N/A
	Number of layers (pcs)		_
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procedure		N/A
	Electric strength test		_
2.10.5.10	Thin sheet material – alternative test procedure		N/A
	Electric strength test		
2.10.5.11	Insulation in wound components		N/A
2.10.5.12	Wire in wound components		N/A
	Working voltage:		N/A

Report No.: CHTSE21010181 Page 14 of 43 Issued: 2021-02-05

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	a) Basic insulation not under stress:		N/A
	b) Basic, supplementary, reinforced insulation:		N/A
	c) Compliance with Annex U		N/A
	Two wires in contact inside wound component; angle between 45° and 90°		N/A
2.10.5.13	Wire with solvent-based enamel in wound components		N/A
	Electric strength test		
	Routine test		N/A
2.10.5.14	Additional insulation in wound components		N/A
	Working voltage		N/A
	- Basic insulation not under stress:		N/A
	- Supplementary, reinforced insulation:		N/A
2.10.6	Construction of printed boards		N/A
2.10.6.1	Uncoated printed boards		N/A
2.10.6.2	Coated printed boards		N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A
2.10.6.4	Insulation between conductors on different layers of a printed board		N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs)		N/A
2.10.7	Component external terminations		N/A
2.10.8	Tests on coated printed boards and coated components		N/A
2.10.8.1	Sample preparation and preliminary inspection		N/A
2.10.8.2	Thermal conditioning		N/A
2.10.8.3	Electric strength test		N/A
2.10.8.4	Abrasion resistance test		N/A
2.10.9	Thermal cycling		N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N/A
2.10.11	Tests for semiconductor devices and cemented joints		N/A
2.10.12	Enclosed and sealed parts		N/A

3	WIRING, CONNECTIONS AND SUPPLY	Р
3.1	General	Р
3.1.1	Current rating and overcurrent protection	Р

Report No.: CHTSE21010181 Page 15 of 43 Issued: 2021-02-05

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IEC 60950-1				
Clause	Requirement + Test	Result - Remark	Verdict	
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3.1.2	Protection against mechanical damage		Р	
3.1.3	Securing of internal wiring		Р	
3.1.4	Insulation of conductors		Р	
3.1.5	Beads and ceramic insulators	No beads or similar ceramic insulators on conductors.	N/A	
3.1.6	Screws for electrical contact pressure	No screw for electrical contact.	N/A	
3.1.7	Insulating materials in electrical connections		N/A	
3.1.8	Self-tapping and spaced thread screws		N/A	
3.1.9	Termination of conductors		N/A	
	10 N pull test		N/A	
3.1.10	Sleeving on wiring	No sleeving used to provide supplementary insulation.	N/A	

3.2	Connection to a mains supply		N/A
3.2.1	Means of connection	Not directly connected to the mains.	N/A
3.2.1.1	Connection to an a.c. mains supply		N/A
3.2.1.2	Connection to a d.c. mains supply		N/A
3.2.2	Multiple supply connections		N/A
3.2.3	Permanently connected equipment		N/A
	Number of conductors, diameter of cable and conduits (mm):		_
3.2.4	Appliance inlets		N/A
3.2.5	Power supply cords		N/A
3.2.5.1	AC power supply cords		N/A
	Type:		
	Rated current (A), cross-sectional area (mm²), AWG:		_
3.2.5.2	DC power supply cords		N/A
3.2.6	Cord anchorages and strain relief		N/A
	Mass of equipment (kg), pull (N):		
	Longitudinal displacement (mm):		
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards		N/A
	Diameter or minor dimension D (mm); test mass (g)		_
	Radius of curvature of cord (mm):		_
3.2.9	Supply wiring space		N/A

Report No.: CHTSE21010181 Page 16 of 43 Issued: 2021-02-05

IEC 60950-1				
Clause	Requirement + Test		Result - Remark	Verdio

3.3	Wiring terminals for connection of external conductors		N/A
3.3.1	Wiring terminals	Not such terminal	N/A
3.3.2	Connection of non-detachable power supply cords		N/A
3.3.3	Screw terminals		N/A
3.3.4	Conductor sizes to be connected		N/A
	Rated current (A), cord/cable type, cross-sectional area (mm²)		_
3.3.5	Wiring terminal sizes		N/A
	Rated current (A), type, nominal thread diameter (mm):		_
3.3.6	Wiring terminal design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A

3.4	Disconnection from the mains supply		N/A
3.4.1	General requirement	Not directly connected to the mains.	N/A
3.4.2	Disconnect devices		N/A
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized		N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Number of poles - single-phase and d.c. equipment		N/A
3.4.7	Number of poles - three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment		N/A
3.4.11	Multiple power sources		N/A

3.5	Interconnection of equipment		Р
3.5.1	General requirements	The interconnection circuits are SELV circuits.	Р
3.5.2	Types of interconnection circuits:	SELV circuits.	Р
3.5.3	ELV circuits as interconnection circuits	No ELV interconnections.	N/A
3.5.4	Data ports for additional equipment		N/A

	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
4	PHYSICAL REQUIREMENTS		Р	
4.1	Stability		N/A	
	Angle of 10°		N/A	
	Test force (N)	Not floor-standing unit.	N/A	

4.2	Mechanical strength		Р
4.2.1	General		Р
	Rack-mounted equipment.	Not rack-mounted equipment.	N/A
4.2.2	Steady force test, 10 N		N/A
4.2.3	Steady force test, 30 N		N/A
4.2.4	Steady force test, 250 N	No hazards	Р
4.2.5	Impact test		N/A
	Fall test		N/A
	Swing test		N/A
4.2.6	Drop test; height (mm)		N/A
4.2.7	Stress relief test	After the test at temperature of 70°C for 7h, no risk of shrinkage or distortion on enclosures due to release of internal stresses.	Р
4.2.8	Cathode ray tubes	No CRT in the unit.	N/A
	Picture tube separately certified		N/A
4.2.9	High pressure lamps	No high pressure lamps provided	N/A
4.2.10	Wall or ceiling mounted equipment; force (N):		N/A

4.3	Design and construction		Р
4.3.1	Edges and corners		Р
4.3.2	Handles and manual controls; force (N):	No such controls provided.	N/A
4.3.3	Adjustable controls	No such controls provided.	N/A
4.3.4	Securing of parts	Mechanical fixings in such a way designed that they will withstand mechanical stress occurring in normal use.	Р
4.3.5	Connection by plugs and sockets	No such sockets	N/A
4.3.6	Direct plug-in equipment	Approved AC/DC adapter	N/A
	Torque		
	Compliance with the relevant mains plug standard		N/A
4.3.7	Heating elements in earthed equipment	No such elements	N/A

Report No.: CHTSE21010181 Page 18 of 43 Issued: 2021-02-05

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.3.8	Batteries	(see appended tables 4.3.8)	Р
	- Overcharging of a rechargeable battery		Р
	- Unintentional charging of a non-rechargeable battery		N/A
	- Reverse charging of a rechargeable battery		N/A
	- Excessive discharging rate for any battery		Р
4.3.9	Oil and grease	No oil or grease.	N/A
4.3.10	Dust, powders, liquids and gases	Equipment in intended use not considered to be exposed to these.	N/A
4.3.11	Containers for liquids or gases	No container for liquid or gas.	N/A
4.3.12	Flammable liquids:	No flammable liquid.	N/A
	Quantity of liquid (I)		N/A
	Flash point (°C)		N/A
4.3.13	Radiation		Р
4.3.13.1	General		Р
4.3.13.2	Ionizing radiation	The equipment does not generate ionizing radiation.	N/A
	Measured radiation (pA/kg)		_
	Measured high-voltage (kV)		_
	Measured focus voltage (kV)		_
	CRT markings		
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	The equipment does not produce UV radiation.	N/A
	Part, property, retention after test, flammability classification		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	No ultraviolet radiation	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs		Р
4.3.13.5.1	Lasers (including laser diodes)		N/A
	Laser class		_
4.3.13.5.2	Light emitting diodes (LEDs)	Indicating LEDs	Р
4.3.13.6	Other types	The equipment does not generate other types of radiation.	N/A

4.4	Protection against hazardous moving parts		N/A
4.4.1	General	No hazardous moving parts	N/A
4.4.2	Protection in operator access areas:		N/A

Report No.: CHTSE21010181 Page 19 of 43 Issued: 2021-02-05

Kepon No	DEC 60950-1	Issueu	: 2021-02-05
Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + rest	Result - Remark	verdict
	Household and home/office document/media shredders		N/A
4.4.3	Protection in restricted access locations:		N/A
4.4.4	Protection in service access areas		N/A
4.4.5	Protection against moving fan blades		N/A
4.4.5.1	General		N/A
	Not considered to cause pain or injury. a)		N/A
	Is considered to cause pain, not injury. b)		N/A
	Considered to cause injury. c)		N/A
4.4.5.2	Protection for users		N/A
	Use of symbol or warning		N/A
4.4.5.3	Protection for service persons		N/A
	Use of symbol or warning		N/A
			ľ
4.5	Thermal requirements		Р
4.5.1	General		Р
4.5.2	Temperature tests	See appended table 4.5	Р
	Normal load condition per Annex L:	Maximum normal load.	_
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 hazardous voltage	N/A
4.0			NI/A
4.6	Openings in enclosures	No en en in en	N/A
4.6.1	Top and side openings	No openings	N/A
400	Dimensions (mm)		— N/A
4.6.2	Bottoms of fire enclosures		N/A
	Construction of the bottomm, dimensions (mm):		N/A
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment		N/A
4.6.4.1	Constructional design measures		IN/A
40.15	Dimensions (mm):		N1/A
4.6.4.2	Evaluation measures for larger openings		N/A N/A
4.6.4.3	Use of metallized parts		N/A N/A
4.6.5	Adhesives for constructional purposes		IN/A
	Conditioning temperature (°C), time (weeks):		_
4.7	Resistance to fire		Р

Report No	.: CHTSE21010181 Page 20 01 43	Issued: 2	2021-02-05
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
4.7.1	Reducing the risk of ignition and spread of flame	Used the method 1.	Р
	Method 1, selection and application of components wiring and materials	Use of materials with the required flammability classes.	Р
	Method 2, application of all of simulated fault condition tests		N/A
4.7.2	Conditions for a fire enclosure		Р
4.7.2.1	Parts requiring a fire enclosure		Р
4.7.2.2	Parts not requiring a fire enclosure		Р
4.7.3	Materials	•	Р
4.7.3.1	General	PCB rated V-1 or better, see appended table 1.5.1 for details.	Р
4.7.3.2	Materials for fire enclosures		N/A
4.7.3.3	Materials for components and other parts outside fire enclosures		N/A
4.7.3.4	Materials for components and other parts inside fire enclosures		N/A
4.7.3.5	Materials for air filter assemblies	No air filters provided.	N/A
4.7.3.6	Materials used in high-voltage components	No high voltage components provided.	N/A

ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS		Р	
Touch current and protective conductor current		N/A	
General	Not directly connected to the mains.	N/A	
Configuration of equipment under test (EUT)		N/A	
Single connection to an a.c. mains supply		N/A	
Redundant multiple connections to an a.c. mains supply		N/A	
Simultaneous multiple connections to an a.c. mains supply		N/A	
Test circuit		N/A	
Application of measuring instrument		N/A	
Test procedure		N/A	
Test measurements		N/A	
Supply voltage (V)		_	
Measured touch current (mA)		_	
Max. allowed touch current (mA)		_	
Measured protective conductor current (mA):		_	
Max. allowed protective conductor current (mA):		—	
	Touch current and protective conductor current General Configuration of equipment under test (EUT) Single connection to an a.c. mains supply Redundant multiple connections to an a.c. mains supply Simultaneous multiple connections to an a.c. mains supply Test circuit Application of measuring instrument Test procedure Test measurements Supply voltage (V)	Touch current and protective conductor current General Not directly connected to the mains. Configuration of equipment under test (EUT) Single connection to an a.c. mains supply Redundant multiple connections to an a.c. mains supply Simultaneous multiple connections to an a.c. mains supply Test circuit Application of measuring instrument Test procedure Test measurements Supply voltage (V)	

report Ne	7 OITI 3L21010101 Fage 21 01 43		35ueu. 2021-02-03
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.1.7	Equipment with touch current exceeding 3,5 mA		N/A
5.1.7.1	General:		N/A
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	No TNV circuits.	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		N/A
	Supply voltage (V):		_
	Measured touch current (mA)		_
	Max. allowed touch current (mA)		_
5.1.8.2	Summation of touch currents from telecommunication networks	No TNV circuits.	N/A
	a) EUT with earthed telecommunication ports:		N/A
	b) EUT whose telecommunication ports have no reference to protective earth		N/A

5.2	Electric strength		N/A
5.2.1	General		N/A
5.2.2	Test procedure	Functional insulation is satisfied by the application of 5.3.4 c), not 5.3.4 b). No need this test.	N/A

5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	Р
5.3.2	Motors		N/A
5.3.3	Transformers	Approved power adapter.	N/A
5.3.4	Functional insulation	.: By short-circuited, results see appended table 5.3.	Р
5.3.5	Electromechanical components	No electromechanical components.	N/A
5.3.6	Audio amplifiers in ITE	.: Accordance with 4.3.4 and 4.3.5 of IEC 60065	Р
5.3.7	Simulation of faults	(See appended table 5.3).	Р
5.3.8	Unattended equipment	No thermostat, temperature limiter or thermal cut-out.	N/A

Report No.: CHTSE21010181 Page 22 of 43 Issued: 2021-02-05

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		IEC 60950-1		
Clause	Requirement + Test		Result - Remark	Verdict
5.3.9	Compliance criteria for abnotal fault conditions	ormal operating and	No fire propagated beyond the equipment, no molten metal was emitted and no deformation of enclosure during the tests.	Р
5.3.9.1	During the tests		No fire or molten metal occurred and no deformation of enclosure during the tests.	Р
5.3.9.2	After the tests		Functional insulation	N/A

6		
6.1		
6.1.1	Protection from hazardous voltages	
6.1.2	Separation of the telecommunication network from earth	
6.1.2.1	Requirements	N/A
	Supply voltage (V):	_
	Current in the test circuit (mA):	
6.1.2.2	2.2 Exclusions	

6.2	Protection of equipment users from overvoltages on telecommunication networks	
6.2.1	Separation requirements	N/A
6.2.2	Electric strength test procedure	N/A
6.2.2.1	Impulse test	N/A
6.2.2.2	Steady-state test	N/A
6.2.2.3	Compliance criteria	N/A

6.3 Protection of the telecommunication wiring system from overheating		N/A
	Max. output current (A):	
	Current limiting method:	

7	7 CONNECTION TO CABLE DISTRIBUTION SYSTEMS	
7.1	General	N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	N/A

Report No.: CHTSE21010181 Page 23 of 43 Issued: 2021-02-05

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	IEC 60950-1				
Clause	Requirement + Test		Result - Remark	Verdict	
	1				
7.4	Insulation between primar distribution systems	y circuits and cable		N/A	
7.4.1	General			N/A	
7.4.2	Voltage surge test			N/A	
7.4.3	Impulse test			N/A	

Α	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE	N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	N/A
A.1.1	Samples:	_
	Wall thickness (mm):	_
A.1.2	Conditioning of samples; temperature (°C):	N/A
A.1.3	Mounting of samples:	N/A
A.1.4	Test flame (see IEC 60695-11-3)	N/A
	Flame A, B, C or D	
A.1.5	Test procedure	N/A
A.1.6	Compliance criteria	N/A
	Sample 1 burning time (s):	
	Sample 2 burning time (s):	_
	Sample 3 burning time (s):	
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)	N/A
A.2.1	Samples, material:	_
	Wall thickness (mm):	
A.2.2	Conditioning of samples; temperature (°C):	N/A
A.2.3	Mounting of samples:	N/A
A.2.4	Test flame (see IEC 60695-11-4)	N/A
	Flame A, B or C:	_
A.2.5	Test procedure	N/A
A.2.6	Compliance criteria	N/A
	Sample 1 burning time (s):	_
	Sample 2 burning time (s):	_
	Sample 3 burning time (s):	_
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9	N/A
	Sample 1 burning time (s):	

Report No.: CHTSE21010181 Page 24 of 43 Issued: 2021-02-05

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IEC 60950-1			
Requirement + Test	Result - Remark	Verdict	
Sample 2 burning time (s)		_	
Sample 3 burning time (s)		_	
Hot flaming oil test (see 4.6.2)		N/A	
Mounting of samples		N/A	
Test procedure		N/A	
Compliance criterion		N/A	
	Requirement + Test Sample 2 burning time (s)	IEC 60950-1 Requirement + Test Result - Remark Sample 2 burning time (s)	

В	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)	N/A
B.1	General requirements	N/A
	Position	
	Manufacturer	_
	Type	
	Rated values	
B.2	Test conditions	N/A
B.3	Maximum temperatures	N/A
B.4	Running overload test	N/A
B.5	Locked-rotor overload test	N/A
	Test duration (days)	_
	Electric strength test: test voltage (V)	
B.6	Running overload test for d.c. motors in secondary circuits	N/A
B.6.1	General	N/A
B.6.2	Test procedure	N/A
B.6.3	Alternative test procedure	N/A
B.6.4	Electric strength test; test voltage (V)	N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	N/A
B.7.1	General	N/A
B.7.2	Test procedure	N/A
B.7.3	Alternative test procedure	N/A
B.7.4	Electric strength test; test voltage (V):	N/A
B.8	Test for motors with capacitors	N/A
B.9	Test for three-phase motors	N/A
B.10	Test for series motors	N/A
	Operating voltage (V)	

Report No.: CHTSE21010181 Page 25 of 43 Issued: 2021-02-05

Report No	b.: CHTSE21010181 Page 25 of 43	Issued: 2	2021-02-05
	IEC 60950-1		
Clause	Requirement + Test R	esult - Remark	Verdict
С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N/A
	Position		
	Manufacturer		_
	Туре		_
	Rated values		
	Method of protection:		
C.1	Overload test		N/A
C.2	Insulation		N/A
	Protection from displacement of windings:		N/A
D	ANNEX D, MEASURING INSTRUMENTS FOR TOUC	H-CURRENT TESTS	N/A
	(see 5.1.4)		21/0
D.1	Measuring instrument		N/A
D.2	Alternative measuring instrument		N/A
E	ANNEX E, TEMPERATURE RISE OF A WINDING (se	ee 1.4.13)	N/A
		,	1 1,71
F	ANNEX F, MEASUREMENT OF CLEARANCES AND (see 2.10 and Annex G)	CREEPAGE DISTANCES	N/A
	T		
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMING CLEARANCES	NING MINIMUM	N/A
G.1	Clearances		N/A
G.1.1	General		N/A
G.1.2	Summary of the procedure for determining minimum clearances		N/A
G.2	Determination of mains transient voltage (V)		N/A
G.2.1	AC mains supply:		N/A
G.2.2	Earthed d.c. mains supplies:		N/A
G.2.3	Unearthed d.c. mains supplies:		N/A
G.2.4	Battery operation		N/A
G.3	Determination of telecommunication network transient voltage (V):		N/A
G.4	Determination of required withstand voltage (V)		N/A
G.4.1	Mains transients and internal repetitive peaks:		N/A
G.4.2	Transients from telecommunication networks:		N/A
G.4.3	Combination of transients		N/A
G.4.4	Transients from cable distribution systems		N/A

		2021-02-05
	IEC 60950-1	
Clause	Requirement + Test Result - Remark	Verdict
G.5	Measurement of transient voltages (V)	N/A
	a) Transients from a mains supply	N/A
	For an a.c. mains supply	N/A
	For a d.c. mains supply	N/A
	b) Transients from a telecommunication network	N/A
G.6	Determination of minimum clearances:	N/A
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)	N/A
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)	N/A
	Metal(s) used:	_
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)	N/A
K.1	Making and breaking capacity	N/A
K.2	Thermostat reliability; operating voltage (V):	N/A
K.3	Thermostat endurance test; operating voltage (V)	N/A
K.4	Temperature limiter endurance; operating voltage (V)	N/A
K.5	Thermal cut-out reliability	N/A
K.6	Stability of operation	N/A
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	Р
L.1	Typewriters	N/A
L.2	Adding machines and cash registers	N/A
L.3	Erasers	N/A
L.4	Pencil sharpeners	N/A
L.5	Duplicators and copy machines	N/A
L.6	Motor-operated files	N/A
		T

М	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)		N/A
M.1	Introduction		N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringing signal		N/A
M.3.1.1	Frequency (Hz)		_

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Other business equipment

Report No.: CHTSE21010181 Page 27 of 43 Issued: 2021-02-05

Report No	o.: CHTSE21010181 Page 27 of 43	Issued: 2	021-02-0
	IEC 60950-1		1
Clause	Requirement + Test	Result - Remark	Verdict
M.3.1.2	Voltage (V)		
M.3.1.3	Cadence; time (s), voltage (V)		
M.3.1.4	Single fault current (mA)		_
M.3.2	Tripping device and monitoring voltage		N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V)		N/A
N	ANNEX N, IMPULSE TEST GENERATORS (see 1 7.3.2, 7.4.3 and Clause G.5)	.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1,	N/A
N.1	ITU-T impulse test generators		N/A
N.2	IEC 60065 impulse test generator		N/A
P	ANNEX P, NORMATIVE REFERENCES		
•	ANNEXT, NORMATTE RELEASES		
Q	ANNEX Q, Voltage dependent resistors (VDRs)	(see 1.5.9.1)	N/A
	- Preferred climatic categories:		N/A
	- Maximum continuous voltage		N/A
	- Combination pulse current:		N/A
	Body of the VDR Test according to IEC60695-11-5		N/A
	Body of the VDR. Flammability class of material (min V-1):		N/A
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR PROGRAMMES	R QUALITY CONTROL	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING	G (see 6.2.2.3)	N/A
S.1	Test equipment		N/A
S.2	Test procedure		N/A
S.3	Examples of waveforms during impulse testing		N/A
Т	ANNEX T, GUIDANCE ON PROTECTION AGAINS (see 1.1.2)	ST INGRESS OF WATER	N/A
		See separate test report	

Report N	lo.: CHTSE21010181 Page 28		2021-02-0
	IEC 6095	50-1	
Clause	Requirement + Test	Result - Remark	Verdict
U	ANNEX U, INSULATED WINDING WIRES INSULATION (see 2.10.5.4)	FOR USE WITHOUT INTERLEAVED	N/A
		See separate test report	
V	ANNEX V, AC POWER DISTRIBUTION SY	STEMS (see 1.6.1)	N/A
V.1	Introduction		N/A
V.2	TN power distribution systems		N/A
W	ANNEY W. SUMMATION OF TOUCH CUR	DENTS	N/A
W.1	Touch current from electronic circuits	KENIS	N/A N/A
W.1.1	Floating circuits	+	N/A
W.1.2	Earthed circuits		N/A
W.2	Interconnection of several equipments		N/A
W.2.1	Isolation		N/A
W.2.2	Common return, isolated from earth		N/A
W.2.3	Common return, connected to protective ear	th	N/A
Х	ANNEX X, MAXIMUM HEATING EFFECT I		•
X.1	Determination of maximum input current		N/A
X.2	Overload test procedure		N/A
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDIT	IONING TEST (see 4 3 13 3)	N/A
Y.1	Test apparatus	<u> </u>	N/A
Y.2	Mounting of test samples		N/A
Y.3	Carbon-arc light-exposure apparatus		N/A
Y.4	Xenon-arc light exposure apparatus		N/A
Z	ANNEX Z, OVERVOLTAGE CATEGORIES	(see 2.10.3.2 and Clause G.2)	N/A
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8	3)	N/A
	ANTILA AA, MANDILL ILDI (366 2.10.3.0	<u>"</u>	IN/A
ВВ	ANNEX BB, CHANGES IN THE SECOND	EDITION	

СС	ANNEX CC, Evaluation of integrated circuit (IC) current limiters		N/A
CC.1	General		N/A
CC.2	Test program 1		N/A

Report No.: CHTSE21010181 Page 29 of 43 Issued: 2021-02-05

	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
CC.3	Test program 2		N/A	
CC.4	Test program 3:		N/A	
CC.5	Compliance		N/A	

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

EE	ANNEX EE, Household and home/office document/media shredders	N/A
EE.1	General	N/A
EE.2	Markings and instructions	N/A
	Use of markings or symbols	N/A
	Information of user instructions, maintenance and/or servicing instructions:	N/A
EE.3	Inadvertent reactivation test	N/A
EE.4	Disconnection of power to hazardous moving parts:	N/A
	Use of markings or symbols	N/A
EE.5	Protection against hazardous moving parts	N/A
	Test with test finger (Figure 2A)	N/A
	Test with wedge probe (Figure EE1 and EE2):	N/A

Report No.: CHTSE21010181 Page 30 of 43 Issued: 2021-02-05

IEC 60950-1						
Clause	Requirement + Test	Result - Remark	Verdict			

1.5.1 T	ABLE: List of critic	cal components			Р
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
PCB	Interchangeable	Interchangeable	Min.V-1, 130°C	UL 796	UL
Enclosure	Interchangeable	Interchangeable	Min. V-1, 130°C, min.1.0mm	UL 94 UL 746C	UL
Battery	SHENZHEN CHOLIPOWER TECHNOLOGY Co.,Ltd	CLP505060P	7.4Vdc, 2000mAh, 14.8Wh	IEC62133- 2:2017	SHENZHEN CCJC Technology CO., Ltd. (Report No.: CCJC2021A1 75401)
-MOSFET	Shenzhen Depu Microelectronics Co.,Ltd	8205A	VDS:20V; VGS:±12V; ID(at TA=25℃):5A IDM:20A; TJ, TSTG:-55℃ To 150℃		Test with appliance.
-IC(U1)	YiPuLing technology co.,LTD	G3M	Overcharge Detection Voltage:2.8V Operating temperature range:-40°C To +85°C		Test with appliance.
Switching adapter	Shenzhen HONOR Electronic Co., Ltd.	ADS-26FSG-12 12018EPG,	Input: 100- 240V~, 50/60Hz, Max. 0.7A Output: 12Vdc, Max.2.0A, Max.24.0W	IEC/EN 60950- 1	Interlek Testing Services Shanghai (Report No.: 161000987SH A-001)

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.

Report No.: CHTSE21010181 Page 31 of 43 Issued: 2021-02-05

-1							
IEC 60950-1							
Clause	Requirement + Test		Result - Remark		Verdict		

1.5.1	TABLE: Opto Electronic Devices	N/A				
Manufacturer	:					
Туре	:					
Separately tes	Separately tested:					
Bridging insula	ntion:					
External creepage distance:						
Internal creepage distance:						
Distance throu	gh insulation:					
Tested under the following conditions:						
Input	Input:					
Output	Output:					
supplementary	supplementary information					
		·				

1.6.2	TABLE: E	TABLE: Electrical data (in normal conditions)					
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
12.0	1.17	1.5	14.04			Charge mode, test with empty battery.	
7.4	0.502		3.72			Discharge mode, with max. Working condition	
Supplementary information:							

2.1.1.5 c) 1)	TABLE: ma	ABLE: max. V, A, VA test				
Voltage (V	.,`	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max. (VA))
USB output:						
3.	7	2.0	4.2	5.3	17.9	
supplementary information:						

2.1.1.5 c) 2)	TABLE: stored energy			
Capacitance C (µF)		Voltage U (V)	Energy E (J)	

Report No.: CHTSE21010181 Page 32 of 43 Issued: 2021-02-05

IEC 60950-1					
Clause	Requirement + Test	Result - Remark	Verdict		

supplementary information:	

2.2	TABLE: evaluation of voltage limiting components in SELV circuits				
Compone	ent (measured between)	max. voltage (V) (normal operation)		Voltage Limiting Comp	onents
		V peak	V d.c.		
Fault test	performed on voltage limiting components	Voltage measured (V) in SELV circuits (V peak or V d.c.)			
suppleme	entary information:				

2.5 T	TABLE: Limited power sources					P	
Circuit output t	ested:						
Note: Measured Uoc (V) with all load circuits disconnected:							
Components	Test condition	Uoc (V)	I _{sc}	(A)	V	Ά	
	(Single fault)		Meas.	Limit	Meas.	Limit	
For USB outpu	ut:						
output	Normal condition	4.95	0.68	≪8	2.7	≤100	
U9 pin3-4	SC	0	0	≪8	0	≤100	
For battery:	For battery:						
U3 Pin1-Pin4	SC	8.40	4.5	≪8	34.1	≤100	
R1	SC	8.40	4.6	≤8	34.5	≤100	
supplementary information:							
Sc=Short circu	Sc=Short circuit, Oc=Open circuit						

Report No.: CHTSE21010181 Page 33 of 43 Issued: 2021-02-05

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	IEC 60950-1						
Clause	Requirement + Test		Result - Remark	Verdict			

2.10.2	Table: working voltage measurement							
Location		RMS voltage (V)	Peak voltage (V)	Comments				
supplementa	supplementary information:							

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements							
Clearance (cl) and creepage U peak U r.m.s. Required cl cl Required cr distance (cr) at/of/between: (V) (V) (mm) (mm) (r					c (m			
Supplement	ary information:							

2.10.5	TABLE: Distance through insulation measurements							
Distance thr	ough insulation (DTI) at/of:	U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)		DTI (mm)	
					-	-		
Supplement	ary information:							

4.3.8	TABLE:	Batteries							Р
The tests of data is not		applicable	only when ap	propriate b	attery				Р
Is it possib	le to install	the battery	in a reverse p	oolarity pos	sition?				Р
	Non-re	chargeable	e batteries	Rechargeable batteries					
	Discharging Un- Charging Discharging Reversed			charging					
	Meas. Manuf. intentional charging		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	
Max. current during normal condition				0.12A	1000mA	0.502A	2000mA		
Max. current during fault condition R1 short circuit				0.11A	1000MA	0.498A	2000MA		

'				
		IEC 60950-1		
Clause	Requirement + Test		Result - Remark	Verdict

Clause	Requiren	nent + Test				Result - Re	mark		Verdict
4.3.8	TABLE:	Batteries							Р
The tests of data is not a		applicable	only when ap	propriate b	attery				Р
Is it possible	e to install	the battery	in a reverse p	oolarity pos	sition?				Р
	Non-rechargeable batteries				Rechargeable batteries				
	Discharging Un-		Chai	arging Discharging Reve			Reversed	sed charging	
	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	11110000	Manuf. Specs.	Meas. current	Manuf. Specs.
Test results	S :								Verdict
- Chemical	leaks					No			Р
- Explosion	of the batt	ery				No			Р
- Emission	of flame or	expulsion	of molten met	al		No			Р

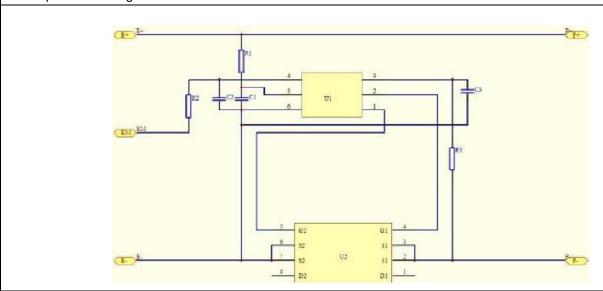
4.3.8	TABLE: Batteries	
Datter and	(Life in APAR APO - Life in Apar)	

N/A

Battery category...... (Lithium, NiMh, NiCad, Lithium Ion ...)

- Electric strength tests of equipment after completion of tests

Supplementary information:



Report No.: CHTSE21010181 Page 35 of 43 Issued: 2021-02-05

		IEC 60950-1		
Clause	Requirement + Test		Result - Remark	Verdict

MARKINGS AND INSTRUCTIONS (1.7.13)					
Location of replaceable battery	See user manual				
Language(s)	English				
Close to the battery:	See user manual				
In the servicing instructions:	N/A				
In the operating instructions:	N/A				

4.5	TABLE: Thermal requ	uirements	6									Р
	Supply voltage (V)		:				;	See b	elow			
	Ambient T _{min} (°C)		:				;	See b	elow			
	Ambient T _{max} (°C)						;	See b	elow			
Maximum	n measured temperature T	of part/at.	:					T (°	C)			Allowed T _{max} (°C)
_	node(12.0V d.c.). Empty ba	attery used	d.									
Battery b	•			57.	9							Ref
Internal w	vire			52.	7							80
DC inlet				59.	2							95
C134				64.	3							105
PCB near U2				59.	4							130
Enclosure inside near PCB				48.	8							Ref
Enclosure outside near PCB				48.	0							95
Adapter s	surface			48.	1							95
Adapter o	output wire			46.	2							80
Ambient				45.	0							
Battery m	node (7.2V d.c.) with full cha	arged batte	ery.									
Battery be	ody			50.	7							Ref
Internal w	vire			50.	8							80
C134				56.	5							105
PCB near	r U2			52.	6							130
Enclosure	e inside near PCB			47.	4							Ref
Enclosure	e outside near PCB			46.	4							95
Ambient				45.	0							
Suppleme	entary information:								<u> </u>		<u>'</u>	.
Temperat	ture T of winding:	t ₁ (°C)	R ₁	(Ω)	t ₂ ((°C)	R ₂	2 (Ω)	T (°0	C)	Allowed T _{max} (°C)	Insulation class
			-	-								
			-	-								

4.5.5	5.5 TABLE: Ball pressure test of thermoplastic parts				
	Allowed impression diameter (mm)	≤ 2 mm	_		
Part		Test temperature (°C)	Impression (mm		
Supplement	ary information:				

4.7	TABLE:	Resistance to fire				N/A
Part		Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
Supplementa	ary inform	nation:				

5.1	TABLE: touch current measurement					
Measured between:		Measured (mA)	Limit (mA)	Comments/conditions		
supplement	ary information:					

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests						
Test voltage applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdo wn Yes / No			
Supplement	Supplementary information:						

5.3	TABLE: Fault condition tests						
	Ambient temperature (°C) 22.3°C						
	Power source for EUT: Manufacturer, model/type, output rating						_
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation	
Charge mode:							

IEC 60950-1								
Clause	Requirement + Test					Result - Remark		
R1(on battery board)	S-C	12.0	7h		1.1	14	Normal working.no chemi caused, no explosion, no no hazards	
Battery	over charging	12.0	7h		1.1	17	Normal working.no chemi caused, no explosion, no no hazards	
USB	SC	12.0	10min		0.1	10	Shut down unit immediate chemical leaks caused, ne explosion, no flame, no ha	0
USB	Overload	12.0	2h57min		0.5	50	Normal working. Max. load current is 0.6A. Battery body: 50.6 °C Internal wire: 47.2 °C DC inlet: 55.9 °C C134 : 60.2 °C PCB near U2 : 54.5 °C Enclosure inside near PC 43.5 °C Enclosure outside near PC 42.9 °C Adapter surface: 42.3 °C Adapter output wire: 42.9 Ambient: 40.0 °C, no chemical leaks caused explosion, no flame, no have	B: CB: 9°C
	de(discharge mode):		_			_	
R1(on battery board)	S-C	7.4	7h		0.4	498	Normal working.no chemi caused, no explosion, no no hazards	
Battery	over discharge	7.4	7h		0.5	502	Normal working.no chemi caused, no explosion, no no hazards	
Supplemen	ntary information:							

Report No.: CHTSE21010181 Page 38 of 43 Issued: 2021-02-05

		<u> </u>		
		IEC 60950-1		
Clause	Requirement + Test		Result - Remark	Verdict

C.2	TABLE: transformers							N/A
Loc.	Tested insulation	Working voltage peak / V	Working voltage rms / V	Required electric strength (5.2)	Required clearance / mm (2.10.3)	Required creepage distance / mm (2.10.4)	dis thr	equired stance . insul. 10.5)
Loc.	Tested insulation			Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	dis ins nui	easured tance thr. oul. / mm; mber of ers
supplemen	supplementary information:							

C.2	TABLE: transformers	N/A		
Transformer	Fransformer			

Report No.: CHTSE21010181 Page 39 of 43 Issued: 2021-02-05

Attachment 1 Photos of Product

Photo 1

Front View



Photo 2

Front View



Photo 3

Rear View

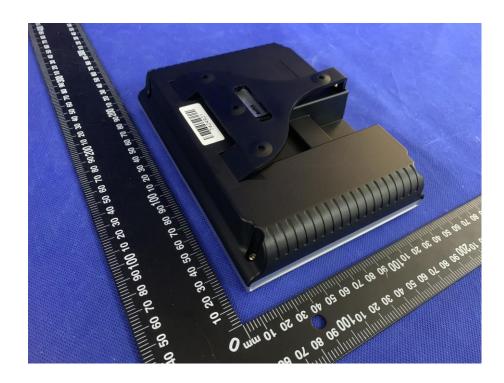


Photo 4

Internal View



Photo 5

Internal View

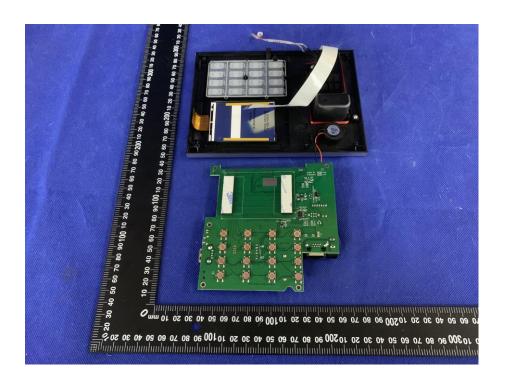
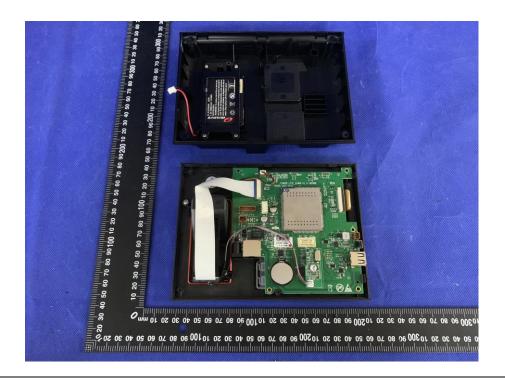


Photo 6

Internal View





PCB View

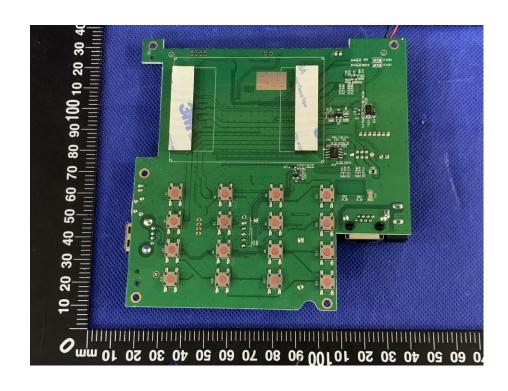
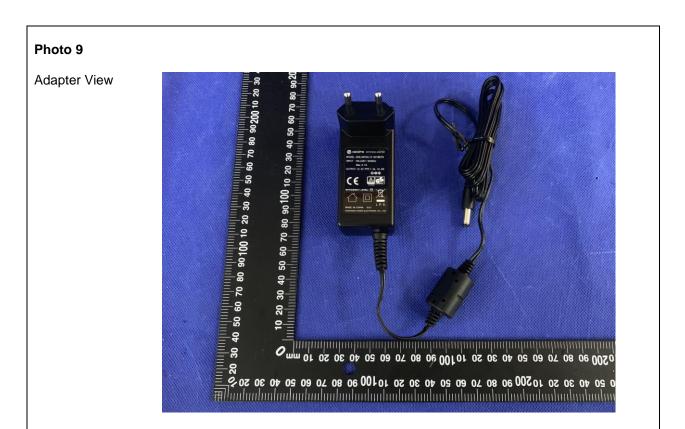


Photo 8

PCB View





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