

TEST REPORT

IEC 60950-1

Information technology equipment - Safety -

Part 1: General requirements

Report Number...... GTS201904000038S01

Testing Laboratory Global United Technology Services Co., Ltd.

Industrial Zone, Xixiang Road, Baoan District, Shenzhen,

Guangdong, China

Applicant's name Dragino Technology Co., Limited

CaiYunRoad LongCheng Street, LongGang District; Shenzhen

518116, China

Manufacturer's name.....: Same as applicant

Address..... Same as applicant

Test specification::

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_1E

Test Report Form(s) Originator..... SGS Fimko Ltd

Master TRF...... Dated 2013-07

Test item description...... SX1301 LoRaWAN gateway

Trade mark. Dragino

Model/Type reference...... LG308

Ratings..... 12V === ,1A

Aven He Project Engineer

Robinson Luo Technical Director Safety Laboratory



Page 2 of 36 Report No.: GTS201904000038S01

Summary of testing:

Testing location:

Global United Technology Services Co., Ltd.

No.123-128, Tower A, Jinyuan Business Building, No. 2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China

Tests performed (name of test and test clause):

The sample(s) tested complies with the requirements of IEC/EN 60950-1

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Heating test (4.5):

Tma = 25 °C (declared by manufacturer)

Tamb = 25.2 °C - 25.6 °C

K-type thermocouple used for temperature measurement.

Summary of compliance with National Differences

Compliance with the National requirements of CENELEC common modification.

Copy of marking plate

SX1301 LoRaWAN gateway

Model No.: LG308

Input: 12V ===,1A

Dragino Technology Co., Limited

Room 202, Block B, BaoChengTai industrial park, No.8 CaiYunRoad LongCheng Street, LongGang District;

Shenzhen 518116, China

S/N: XXXXXX

Importer: XXXXXXX Address: XXXXXXX

Remark:

1. The above label is draft of the artwork for marking plate pending approval by National Certification Bodies and they shall not be affixed to products prior to such approvals.

2. The marking plate of the other models are of the same pattern.

Page 3 of 36 Report No.: GTS201904000038S01

Test item particulars::	
Equipment mobility:	[x] movable [] hand-held [] transportable [] stationary [] for building-in [] direct plug-in
Connection to the mains:	[] pluggable equipment [] type A [] type B [] permanent connection [] detachable power supply cord [] non-detachable power supply cord [x] not directly connected to the mains [] considered in end system
Operating condition:	[x] continuous [] rated operating / resting time:
Access location:	[x] operator accessible [] restricted access location [] considered in end system
Over voltage category (OVC):	[] OVC I [] OVC II [] OVC III [] OVC IV [x] other: No direct connection with mains.
Mains supply tolerance (%) or absolute mains supply	No disease a superstant with a site
values	
Tested for IT power systems	
IT testing, phase-phase voltage (V)	
Class of equipment:	[] Class I []Class II [x] Class III [] Not classified
Considered current rating of protective device as part of the building installation (A)	16 A
Pollution degree (PD)	[] PD 1 [x] PD 2 [] PD 3
IP protection class:	IP X0
Altitude during operation (m)	2000
Altitude of test laboratory (m)	< 500
Mass of equipment (kg)	<7kg
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:	2019-04-19
Date(s) of performance of tests:	2019-04-19 - 2019-05-07

Page 4 of 36 Report No.: GTS201904000038S01

General remarks:

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

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"(see Enclosure #)" refers to additional information appended to the report.

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

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

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Unless otherwise stated: (a) the results shown in this document refer only to the sample(s) tested and (b) such sample(s) are retained for 1 month. This document cannot be reproduced except in full, without prior approval of the company.

General product information:

SX1301 LoRaWAN gateway, powered by external power supply with LPS output. For indoor use only.

Model difference:--

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.



	Page 5 of 36	Report No.: GTS2019040	00038S01
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
1	GENERAL		Р
1.5	Components		Р
1.5.1	General		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		Р
1.5.3	Thermal controls		N
1.5.4	Transformers		N
1.5.5	Interconnecting cables		N
1.5.6	Capacitors bridging insulation		N
1.5.7	Resistors bridging insulation		N
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		N
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		N
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		N
1.5.8	Components in equipment for IT power systems		N
1.5.9	Surge suppressors		N
1.5.9.1	General		N
1.5.9.2	Protection of VDRs		N
1.5.9.3	Bridging of functional insulation by a VDR		N
1.5.9.4	Bridging of basic insulation by a VDR		N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		N
1.6	Power interface		Р
1.6.1	AC power distribution systems	No direct connection with AC	N
		mains	
1.6.2	Input current		Р
1.6.3	Voltage limit of hand-held equipment		Р
1.6.4	Neutral conductor		N
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		N
	Rated voltage(s) or voltage range(s) (V)	12 V===	Р
	Symbol for nature of supply, for d.c. only:		Р



Page 6 of 36 Report No.: GTS201904000038S01

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Rated frequency or rated frequency range (Hz):		N
		1A	P
1.7.1.2	Rated current (mA or A) Identification markings	IA	P
1.7.1.2		Coo marking plate	P
	Manufacturer's name or trade-mark or identification mark	See marking plate	P
	Model identification or type reference:	See marking plate	Р
	Symbol for Class II equipment only:		N
	Other markings and symbols:	See marking plate	Р
1.7.1.3	Use of graphical symbols		N
1.7.2	Safety instructions and marking		Р
1.7.2.1	General		Р
1.7.2.2	Disconnect devices		N
1.7.2.3	Overcurrent protective device		N
1.7.2.4	IT power distribution systems		N
1.7.2.5	Operator access with a tool		N
1.7.2.6	Ozone		N
1.7.3	Short duty cycles		N
1.7.4	Supply voltage adjustment:		N
	Methods and means of adjustment; reference to installation instructions		N
1.7.5	Power outlets on the equipment:		N
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference):		N
1.7.7	Wiring terminals		N
1.7.7.1	Protective earthing and bonding terminals:		N
1.7.7.2	Terminals for a.c. mains supply conductors		N
1.7.7.3	Terminals for d.c. mains supply conductors		N
1.7.8	Controls and indicators		Р
1.7.8.1	Identification, location and marking:		Р
1.7.8.2	Colours:		Р
1.7.8.3	Symbols according to IEC 60417:		N
1.7.8.4	Markings using figures:		N
1.7.9	Isolation of multiple power sources:		N
1.7.10	Thermostats and other regulating devices:		N
1.7.11	Durability	After rubbing test by water and petroleum spirit, the markings are still easily discernible, indelible and legible.	Р
1.7.12	Removable parts		N
1.7.13	Replaceable batteries:		N



Page 7 of 36 Report No.: GTS201904000038S01

Page 7 of 36 Report No.: GTS201904000038S01 IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	Language(s)	English	
1.7.14	Equipment for restricted access locations:		N
2	PROTECTION FROM HAZARDS		Р
2.1		do	P
2.1.1	Protection from electric shock and energy hazard	us 	P
2.1.1	Protection in operator access areas Access to energized parts		N
2.1.1.1	Test by inspection:		N
	Test with test finger (Figure 2A)		N
	Test with test pin (Figure 2B)		N
	Test with test probe (Figure 2C)		N
2.1.1.2	Battery compartments		N
2.1.1.2	<u> </u>		
2.1.1.3	Access to ELV wiring Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)		N
2.1.1.4	Access to hazardous voltage circuit wiring		N
2.1.1.5	Energy hazards		P
2.1.1.6	Manual controls		N
2.1.1.7	Discharge of capacitors in equipment		N
	Measured voltage (V); time-constant (s)		_
2.1.1.8	Energy hazards – d.c. mains supply		N
	a) Capacitor connected to the d.c. mains supply:		N
	b) Internal battery connected to the d.c. mains supply:		N
2.1.1.9	Audio amplifiers		N
2.1.2	Protection in service access areas		N
2.1.3	Protection in restricted access locations		N
2.2	SELV circuits		Р
2.2.1	General requirements		Р
2.2.2	Voltages under normal conditions (V):	< 60 V d.c	Р
2.2.3	Voltages under fault conditions (V):	< 60 V d.c	Р
2.2.4	Connection of SELV circuits to other circuits:	SELV circuits only	Р
2.3	TNV circuits		N
2.3.1	Limits	No TNV circuits	N
	Type of TNV circuits:	1.to 1144 offound	
2.3.2	Separation from other circuits and from accessible parts		N
	I.	1	



Page 8 of 36 Report No.: GTS201904000038S01

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
2.3.2.1	General requirements		N
2.3.2.2	Protection by basic insulation		N
2.3.2.3	Protection by earthing		N
2.3.2.4	Protection by other constructions:		N
2.3.3	Separation from hazardous voltages		N
	Insulation employed:		_
2.3.4	Connection of TNV circuits to other circuits		N
	Insulation employed:		_
2.3.5	Test for operating voltages generated externally		N
2.4	Limited current circuits		N
2.4.1	General requirements		N
2.4.2	Limit values		N
2. 1.2	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
2.5	Limited power sources		Р
2.5	a) Inherently limited output		P
			N
	b) Impedance limited outputc) Regulating network limited output under normal operating and single fault condition		P
	d) Overcurrent protective device limited output		N
	Max. output voltage (V), max. output current (A), max. apparent power (VA)	External power supply has LPS output	_
	Current rating of overcurrent protective device (A) .:		
	Use of integrated circuit (IC) current limiters		
2.6	Provisions for earthing and bonding		N
2.6.1	Protective earthing		N
2.6.2	Functional earthing		N
	Use of symbol for functional earthing		N
2.6.3	Protective earthing and protective bonding conductors		N
2.6.3.1	General		N
2.6.3.2	Size of protective earthing conductors		N



2.8.1

General principles

	Page 9 of 36	Report No.: GTS2019040000	J3030 I
	IEC 60950-1	T	
Clause	Requirement + Test	Result - Remark	Verdict
	Rated current (A), cross-sectional area (mm²), AWG		_
2.6.3.3	Size of protective bonding conductors		N
	Rated current (A), cross-sectional area (mm²), AWG		_
	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
2.6.3.5	Colour of insulation:		N
2.6.4	Terminals		N
2.6.4.1	General		N
2.6.4.2	Protective earthing and bonding terminals		N
	Rated current (A), type, nominal thread diameter (mm)		_
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N
2.6.5	Integrity of protective earthing		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		N
2.6.5.4	Parts that can be removed by an operator		N
2.6.5.5	Parts removed during servicing		N
2.6.5.6	Corrosion resistance		N
2.6.5.7	Screws for protective bonding		N
2.6.5.8	Reliance on telecommunication network or cable distribution system		N
2.7	Overcurrent and earth fault protection in primary	circuits	N
2.7.1	Basic requirements		N
	Instructions when protection relies on building installation		N
2.7.2	Faults not simulated in 5.3.7		N
2.7.3	Short-circuit backup protection		N
2.7.4	Number and location of protective devices:		N
2.7.5	Protection by several devices		N
2.7.6	Warning to service personnel		N
2.8	Safety interlocks		N
		1	

No safety interlocks

N



2.10.3.1

2.10.3.2

General

Mains transient voltages

a) AC mains supply:

N

Ν

	Page 10 of 36	Report No.: GTS2019040000)38S01
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark V	'erdict
2.8.2	Protection requirements		N
2.8.3	Inadvertent reactivation		N
2.8.4	Fail-safe operation		N
	Protection against extreme hazard		N
2.8.5	Moving parts		N
2.8.6	Overriding		N
2.8.7	Switches, relays and their related circuits		N
2.8.7.1	Separation distances for contact gaps and their related circuits (mm):		N
2.8.7.2	Overload test		N
2.8.7.3	Endurance test		N
2.8.7.4	Electric strength test		N
2.8.8	Mechanical actuators		N
		1	
2.9	Electrical insulation		N
2.9.1	Properties of insulating materials		N
2.9.2	Humidity conditioning		N
	Relative humidity (%), temperature (°C)		_
2.9.3	Grade of insulation		N
2.9.4	Separation from hazardous voltages		N
	Method(s) used		
2.10	Clearances, creepage distances and distances the	nrough insulation	N
2.10.1	General		N
2.10.1.1	Frequency:		N
2.10.1.2	Pollution degrees		N
2.10.1.3	Reduced values for functional insulation		N
2.10.1.4	Intervening unconnected conductive parts		N
2.10.1.5	Insulation with varying dimensions		N
2.10.1.6	Special separation requirements		N
2.10.1.7	Insulation in circuits generating starting pulses		N
2.10.2	Determination of working voltage		N
2.10.2.1	General		N
2.10.2.2	RMS working voltage		N
2.10.2.3	Peak working voltage		N
2.10.3	Clearances		N
			-



Page 11 of 36

Report No.: GTS201904000038S01

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	b) Forth add a series assertion		
	b) Earthed d.c. mains supplies:		N
	c) Unearthed d.c. mains supplies		N
	d) Battery operation		N
2.10.3.3	Clearances in primary circuits		N
2.10.3.4	Clearances in secondary circuits		N
2.10.3.5	Clearances in circuits having starting pulses		N
2.10.3.6	Transients from a.c. mains supply		N
2.10.3.7	Transients from d.c. mains supply:		N
2.10.3.8	Transients from telecommunication networks and cable distribution systems		N
2.10.3.9	Measurement of transient voltage levels		Ζ
	a) Transients from a mains supply		N
	For an a.c. mains supply:		N
	For a d.c. mains supply:		N
	b) Transients from a telecommunication network :		N
2.10.4	Creepage distances		N
2.10.4.1	General		N
2.10.4.2	Material group and comparative tracking index		N
	CTI tests:		_
2.10.4.3	Minimum creepage distances		N
2.10.5	Solid insulation		N
2.10.5.1	General		N
2.10.5.2	Distances through insulation		N
2.10.5.3	Insulating compound as solid insulation		N
2.10.5.4	Semiconductor devices		N
2.10.5.5.	Cemented joints		N
2.10.5.6	Thin sheet material – General		N
2.10.5.7	Separable thin sheet material		N
	Number of layers (pcs)		_
2.10.5.8	Non-separable thin sheet material		N
2.10.5.9	Thin sheet material – standard test procedure		N
	Electric strength test		_
2.10.5.10	Thin sheet material – alternative test procedure		
	Electric strength test		_
2.10.5.11	Insulation in wound components		N
2.10.5.12	Wire in wound components		N
	Working voltage		N
	a) Basic insulation not under stress:		N



Page 12 of 36

Report No.: GTS201904000038S01

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
	b) Basic, supplementary, reinforced insulation:		N
	c) Compliance with Annex U:		N
	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
	Electric strength test		
	Routine test		N
2.10.5.14	Additional insulation in wound components		N
	Working voltage		N
	- Basic insulation not under stress		N
	- Supplementary, reinforced insulation:		N
2.10.6	Construction of printed boards		N
2.10.6.1	Uncoated printed boards		N
2.10.6.2	Coated printed boards		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		N
	Distance through insulation		N
	Number of insulation layers (pcs)		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		N
2.10.8.2	Thermal conditioning		N
2.10.8.3	Electric strength test		N
2.10.8.4	Abrasion resistance test		N
2.10.9	Thermal cycling		N
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N
2.10.11	Tests for semiconductor devices and cemented joints		N
2.10.12	Enclosed and sealed parts		N
			·
3	WIRING, CONNECTIONS AND SUPPLY		Р
3.1	General		Р
3.1.1	Current rating and overcurrent protection		Р
3.1.2	Protection against mechanical damage		Р
3.1.3	Securing of internal wiring		Р



	Page 13 of 36	Report No.: GTS2	01904000038S0
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
3.1.4	Insulation of conductors		N
3.1.5	Beads and ceramic insulators		N
3.1.6	Screws for electrical contact pressure		N
3.1.7	Insulating materials in electrical connections		N
3.1.8	Self-tapping and spaced thread screws		N
3.1.9	Termination of conductors		N
	10 N pull test		N
3.1.10	Sleeving on wiring		N

3.2	Connection to a mains supply		N
3.2.1	Means of connection		N
3.2.1.1	Connection to an a.c. mains supply	No direct connection to mains supply	N
3.2.1.2	Connection to a d.c. mains supply		N
3.2.2	Multiple supply connections		N
3.2.3	Permanently connected equipment	No direct connection to mains supply	N
	Number of conductors, diameter of cable and conduits (mm):		_
3.2.4	Appliance inlets		N
3.2.5	Power supply cords		N
3.2.5.1	AC power supply cords		N
	Type:		_
	Rated current (A), cross-sectional area (mm²), AWG:		_
3.2.5.2	DC power supply cords		N
3.2.6	Cord anchorages and strain relief		N
	Mass of equipment (kg), pull (N):		_
	Longitudinal displacement (mm):		_
3.2.7	Protection against mechanical damage		N
3.2.8	Cord guards		N
	Diameter or minor dimension D (mm); test mass (g)		_
	Radius of curvature of cord (mm):		_
3.2.9	Supply wiring space		N

3.3	Wiring terminals for connection of external conductors	
3.3.1	Wiring terminals	N
3.3.2	Connection of non-detachable power supply cords	N
3.3.3	Screw terminals	N



Page 14 of 36 Report No.: GTS201904000038S01

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
3.3.4	Conductor sizes to be connected		N
	Rated current (A), cord/cable type, cross-sectional area (mm²):		_
3.3.5	Wiring terminal sizes		N
	Rated current (A), type, nominal thread diameter (mm):		_
3.3.6	Wiring terminal design		N
3.3.7	Grouping of wiring terminals		N
3.3.8	Stranded wire		N
3.4	Disconnection from the mains supply		N
3.4.1	General requirement		N
3.4.2	Disconnect devices		N
3.4.3	Permanently connected equipment		N
3.4.4	Parts which remain energized		N
3.4.5	Switches in flexible cords		N
3.4.6	Number of poles - single-phase and d.c. equipment		N
3.4.7	Number of poles - three-phase equipment		N
3.4.8	Switches as disconnect devices		N
3.4.9	Plugs as disconnect devices		N
3.4.10	Interconnected equipment		N
3.4.11	Multiple power sources		N
3.5	Interconnection of equipment		Р
3.5.1	General requirements		Р
3.5.2	Types of interconnection circuits:		Р
3.5.3	ELV circuits as interconnection circuits		N
3.5.4	Data ports for additional equipment	Only used for data transfer	Р
4	PHYSICAL REQUIREMENTS		Р
4.1	Stability		N
	Angle of 10°		N
	Test force (N)		N
4.2	Mechanical strength		Р
4.2.1	General		N
	Rack-mounted equipment.		N
4.2.2	Steady force test, 10 N		N
4.2.3	Steady force test, 30 N		N



Page 15 of 36 Report No.: GTS201904000038S01

	3	<u> </u>		
	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
4.2.4	Steady force test, 250 N		Р	
4.2.5	Impact test		N	
	Fall test		N	
	Swing test		N	
4.2.6	Drop test; height (mm):	1000 mm	Р	
4.2.7	Stress relief test		Р	
4.2.8	Cathode ray tubes		N	
	Picture tube separately certified:		N	
4.2.9	High pressure lamps		N	
4.2.10	Wall or ceiling mounted equipment; force (N):		N	

4.3	Design and construction		Р
4.3.1	Edges and corners	Rounded and smoothed	Р
4.3.2	Handles and manual controls; force (N):		N
4.3.3	Adjustable controls		N
4.3.4	Securing of parts		Р
4.3.5	Connection by plugs and sockets		N
4.3.6	Direct plug-in equipment		N
	Torque		
	Compliance with the relevant mains plug standard		N
4.3.7	Heating elements in earthed equipment		N
4.3.8	Batteries	(see appended table 4.3.8)	N
	- Overcharging of a rechargeable battery		N
	- Unintentional charging of a non-rechargeable battery		N
	- Reverse charging of a rechargeable battery		N
	- Excessive discharging rate for any battery		N
4.3.9	Oil and grease	No oil and grease	N
4.3.10	Dust, powders, liquids and gases		N
4.3.11	Containers for liquids or gases		N
4.3.12	Flammable liquids	No flammable liquids	N
	Quantity of liquid (I)		N
	Flash point (°C)		N
4.3.13	Radiation		Р
4.3.13.1	General		Р
4.3.13.2	Ionizing radiation		N
	Measured radiation (pA/kg):		
	Measured high-voltage (kV)		_



Page 16 of 36 Report No.: GTS201904000038S01

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Measured focus voltage (kV)		_
	CRT markings		_
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N
	Part, property, retention after test, flammability classification		N
4.3.13.4	Human exposure to ultraviolet (UV) radiation:		N
4.3.13.5	Lasers (including laser diodes) and LEDs		Р
4.3.13.5.1	Lasers (including laser diodes)		N
	Laser class		_
4.3.13.5.2	Light emitting diodes (LEDs)	Class 1	Р
4.3.13.6	Other types:		N

4.4	Protection against hazardous moving parts		N
4.4.1	General	No moving parts	N
4.4.2	Protection in operator access areas		N
	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		N
4.4.5.1	General		N
	Not considered to cause pain or injury. a)		N
	Is considered to cause pain, not injury. b)		N
	Considered to cause injury. c)		N
4.4.5.2	Protection for users		N
	Use of symbol or warning		N
4.4.5.3	Protection for service persons		N
	Use of symbol or warning		N

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		_
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		N

4.6	Openings in enclosures	N
4.6.1	Top and side openings	N



4.7.3.6

Page 17 of 36 Report No.: GTS201904000038S01

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	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Dimensions (mm)		
4.6.2	Bottoms of fire enclosures		N
	Construction of the bottom, dimensions (mm):		
4.6.3	Doors or covers in fire enclosures		N
4.6.4	Openings in transportable equipment		N
4.6.4.1	Constructional design measures		N
	Dimensions (mm)		
4.6.4.2	Evaluation measures for larger openings		N
4.6.4.3	Use of metallized parts		N
4.6.5	Adhesives for constructional purposes		N
	Conditioning temperature (°C), time (weeks):		
4.7	Resistance to fire		Р
4.7.1	Reducing the risk of ignition and spread of flame		Р
	Method 1, selection and application of components wiring and materials	See appended table 1.5.1	Р
	Method 2, application of all of simulated fault condition tests		N
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		N
4.7.3	Materials		Р
4.7.3.1	General		Р
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		Р
4.7.3.5	Materials for air filter assemblies		N
			1

5	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS	S P
5.1	Touch current and protective conductor current	N
5.1.1	General	N
5.1.2	Configuration of equipment under test (EUT)	N
5.1.2.1	Single connection to an a.c. mains supply	N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	N
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	N

Materials used in high-voltage components



Page 18 of 36

Report No.: GTS201904000038S01

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
5.1.3	Test circuit		N
5.1.4	Application of measuring instrument		N
5.1.5	Test procedure		N
5.1.6	Test measurements		N
	Supply voltage (V):		_
	Measured touch current (mA)		_
	Max. allowed touch current (mA)		
	Measured protective conductor current (mA):		
	Max. allowed protective conductor current (mA):		
5.1.7	Equipment with touch current exceeding 3,5 mA		N
5.1.7.1	General		N
5.1.7.2	Simultaneous multiple connections to the supply		N
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks		N
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		N
	Supply voltage (V)		
	Measured touch current (mA)		
	Max. allowed touch current (mA)		_
5.1.8.2	Summation of touch currents from telecommunication networks		N
	a) EUT with earthed telecommunication ports:		N
	b) EUT whose telecommunication ports have no reference to protective earth		N
5.2	Electric strength	T	N
5.2.1	General		N
5.2.2	Test procedure		N
5.3	Abnormal operating and fault conditions		Р
5.3.1	Protection against overload and abnormal operation		Р
5.3.2	Motors		N
5.3.3	Transformers		N
5.3.4	Functional insulation		Р
5.3.5	Electromechanical components		N
5.3.6	Audio amplifiers in ITE		N
5.3.7	Simulation of faults		Р
5.3.8	Unattended equipment		N



	Page 19 of 36	Report No.: GTS20	1904000038 S 01	
	IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict	
5.3.9	Compliance criteria for abnormal operating and fault conditions		Р	
5.3.9.1	During the tests		Р	
5.3.9.2	After the tests		Р	

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

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

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

7	CONNECTION TO CABLE DISTRIBUTION SYSTEM	MS	N
7.1	General		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		N
7.4.2	Voltage surge test		N
7.4.3	Impulse test		N



A.3.1

A.3.2

A.3.3

Mounting of samples

Compliance criterion

Test procedure

	Page 20 of 36	Report No.: GTS201904	000038 S 0
IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT A	ND FIRE	N
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.1.1	Samples		
	Wall thickness (mm):		
A.1.2	Conditioning of samples; temperature (°C):		N
A.1.3	Mounting of samples:		N
A.1.4	Test flame (see IEC 60695-11-3)		N
	Flame A, B, C or D		
A.1.5	Test procedure		N
A.1.6	Compliance criteria		N
	Sample 1 burning time (s)		
	Sample 2 burning time (s)		
	Sample 3 burning time (s)		
A.2	Flammability test for fire enclosures of movable mass not exceeding 18 kg, and for material and fire enclosures (see 4.7.3.2 and 4.7.3.4)		N
A.2.1	Samples, material:		
	Wall thickness (mm):		
A.2.2	Conditioning of samples; temperature (°C):		N
A.2.3	Mounting of samples		N
A.2.4	Test flame (see IEC 60695-11-4)		N
	Flame A, B or C		_
A.2.5	Test procedure		N
A.2.6	Compliance criteria		N
	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
	Sample 1 burning time (s)		_
	Sample 2 burning time (s)		_
-	Sample 3 burning time (s):		_
A.3	Hot flaming oil test (see 4.6.2)		N
		1	

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N

N



		Page 21 of 36	Report No.: GTS2019040	000038801
		IEC 60950-1		
Clause	Requirement + Test		Result - Remark	Verdict
В	ANNEX B, MOTOR TESTS	UNDER ABNORMAL	CONDITIONS (see 4.7.2.2 and	N

Clause	requirement + rest	Nesult - Nemaik	Verdict
В	ANNEX B, MOTOR TESTS UNDER ABNORMAL (CONDITIONS (see 4.7.2.2 and	N
B.1	General requirements		N
	Position:		_
	Manufacturer		_
	Type:		_
	Rated values		_
B.2	Test conditions		N
B.3	Maximum temperatures	(see appended table 5.3)	N
B.4	Running overload test	(see appended table 5.3)	N
B.5	Locked-rotor overload test		N
	Test duration (days):		_
	Electric strength test: test voltage (V):		_
B.6	Running overload test for d.c. motors in secondary circuits		N
B.6.1	General		N
B.6.2	Test procedure		N
B.6.3	Alternative test procedure		N
B.6.4	Electric strength test; test voltage (V)		N
B.7	Locked-rotor overload test for d.c. motors in secondary circuits		N
B.7.1	General		N
B.7.2	Test procedure		N
B.7.3	Alternative test procedure		N
B.7.4	Electric strength test; test voltage (V):		N
B.8	Test for motors with capacitors	(see appended table 5.3)	N
B.9	Test for three-phase motors	(see appended table 5.3)	N
B.10	Test for series motors		N
	Operating voltage (V):		_

С	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)		N
	Position		_
	Manufacturer		_
	Type:		_
	Rated values		_
	Method of protection		_
C.1	Overload test		N
C.2	Insulation		N



Page 22 of 36 Report No.: GTS201904000038S01

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Protection from displacement of windings:		N
D	ANNEX D, MEASURING INSTRUMENTS FOR TO (see 5.1.4)	UCH-CURRENT TESTS	N
D.1	Measuring instrument		N
D.2	Alternative measuring instrument		N
E	ANNEX E, TEMPERATURE RISE OF A WINDING	(see 1.4.13)	N
F	ANNEX F, MEASUREMENT OF CLEARANCES A (see 2.10 and Annex G)	ND CREEPAGE DISTANCES	N
G	ANNEX G, ALTERNATIVE METHOD FOR DETER CLEARANCES	MINING MINIMUM	N
G.1	Clearances		N
G.1.1	General		N
G.1.2	Summary of the procedure for determining minimum clearances		N
G.2	Determination of mains transient voltage (V)		N
G.2.1	AC mains supply		N
G.2.2	Earthed d.c. mains supplies		N
G.2.3	Unearthed d.c. mains supplies		N
G.2.4	Battery operation		N
G.3	Determination of telecommunication network transient voltage (V):		N
G.4	Determination of required withstand voltage (V)		N
G.4.1	Mains transients and internal repetitive peaks:		N
G.4.2	Transients from telecommunication networks:		N
G.4.3	Combination of transients		N
G.4.4	Transients from cable distribution systems		N
G.5	Measurement of transient voltages (V)		N
	a) Transients from a mains supply		N
	For an a.c. mains supply		N
	For a d.c. mains supply		N
	b) Transients from a telecommunication network		N
G.6	Determination of minimum clearances:		N
Н	ANNEX H, IONIZING RADIATION (see 4.3.13)		N
J	ANNEX J, TABLE OF ELECTROCHEMICAL POT	ENTIALS (see 2.6.5.6)	N
	ANNEX O, TABLE OF ELECTROCHEMICAL POT	LITTIMEO (366 2.0.3.0)	IN



Page 23 of 36 Report No.: GTS201904000038S01

	Page 23 of 36	Report No.: GTS201904	000038 S 0
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Metal(s) used		_
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and	5.3.8)	N
K.1	Making and breaking capacity		N
K.2	Thermostat reliability; operating voltage (V):		N
K.3	Thermostat endurance test; operating voltage (V)		N
K.4	Temperature limiter endurance; operating voltage (V)		N
K.5	Thermal cut-out reliability		N
K.6	Stability of operation	(see appended table 5.3)	N
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOBUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)	OME TYPES OF ELECTRICAL	Р
L.1	Typewriters		N
L.2	Adding machines and cash registers		N
L.3	Erasers		N
L.4	Pencil sharpeners		N
L.5	Duplicators and copy machines		N
L.6	Motor-operated files		N
L.7	Other business equipment		Р
	ANNEY M. CRITERIA FOR TELERIJONE RINGING	C CIONAL C (con 2.2.4)	N.
M.1	ANNEX M, CRITERIA FOR TELEPHONE RINGING Introduction	SIGNALS (See 2.3.1)	N N
M.2	Method A		N
M.3	Method B		N
M.3.1	Ringing signal		N
M.3.1.1	Frequency (Hz)		IN
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
M.3.2.1	Conditions for use of a tripping device or a		N
11000	monitoring voltage		
M.3.2.2	Tripping device		N
M.3.2.3	Monitoring voltage (V)		N
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
N.1	ITU-T impulse test generators		N
	· ·	_ t	i .



Page 24 of 36 Report No.: GTS201904000038S01

	Page 24 of 36 Report I	No.: G1S201904000038S01
Clause	Requirement + Test Result - Rema	ark Verdict
N.2	IEC 60065 impulse test generator	N
P	ANNEX P, NORMATIVE REFERENCES	_
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	N
•	- Preferred climatic categories	N
	- Maximum continuous voltage	N
	- Combination pulse current:	N
	Body of the VDR Test according to IEC60695-11-5	N
	Body of the VDR. Flammability class of material (min V-1)	N
		·
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY COMPROGRAMMES	NTROL N
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	N
R.2	Reduced clearances (see 2.10.3)	N
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)	N
S.1	Test equipment	N
S.2	Test procedure	N
S.3	Examples of waveforms during impulse testing	N
Т	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF (see 1.1.2)	F WATER N
		_
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT IN INSULATION (see 2.10.5.4)	NTERLEAVED N
		_
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)	N
V.1	Introduction	N
V.2	TN power distribution systems	N
W	ANNEX W, SUMMATION OF TOUCH CURRENTS	N
W.1	Touch current from electronic circuits	N
W.1.1	Floating circuits	N
W.1.2	Earthed circuits	N



Page 25 of 36 Report No.: GTS201904000038S01

	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
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
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRAN (see clause C.1)	ISFORMER TESTS	N
X.1	Determination of maximum input current		N
X.2	Overload test procedure		N
Υ	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING	TEST (see 4.3.13.3)	N
Y.1	Test apparatus:		N
Y.2	Mounting of test samples:		N
Y.3	Carbon-arc light-exposure apparatus:		N
Y.4	Xenon-arc light exposure apparatus:		N
			1
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.	10.3.2 and Clause G.2)	N
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2. ANNEX AA, MANDREL TEST (see 2.10.5.8)	10.3.2 and Clause G.2)	N
		·	I
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	V	I
AA BB	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION	V	N —
AA BB CC	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC)	V	N — N
BB CC CC.1	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) of General	V	N — N N N
BB CC CC.1 CC.2	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) of General Test program 1	V	N
AA BB CC CC.1 CC.2 CC.3	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) of General Test program 1	V	N
AA BB CC CC.1 CC.2 CC.3 CC.4	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) of General Test program 1	current limiters	N
AA BB CC CC.1 CC.2 CC.3 CC.4 CC.5	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) of General Test program 1	current limiters	N
AA BB CC CC.1 CC.2 CC.3 CC.4 CC.5	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) of General Test program 1	current limiters	N
AA BB CC CC.1 CC.2 CC.3 CC.4 CC.5 DD	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) of General Test program 1	current limiters ans of rack-mounted	N
AA BB CC CC.1 CC.2 CC.3 CC.4 CC.5 DD DD.1 DD.1 DD.2	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) of General Test program 1	current limiters ans of rack-mounted	N
AA BB CC CC.1 CC.2 CC.3 CC.4 CC.5 DD DD.1 DD.1 DD.2 DD.3	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) of General Test program 1 Test program 2 Test program 3 Compliance ANNEX DD, Requirements for the mounting mean equipment General Mechanical strength test, variable N Mechanical strength test, 250N, including end stops Compliance	current limiters ans of rack-mounted	N
AA BB CC CC.1 CC.2 CC.3 CC.4 CC.5 DD DD.1 DD.2 DD.2 DD.3 DD.4	ANNEX AA, MANDREL TEST (see 2.10.5.8) ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) of General Test program 1	current limiters ans of rack-mounted	N



	Page 26 of 36	Report No.: GTS2019040	00038\$01
	IEC 60950-1		
Clause	Requirement + Test	Result - Remark	Verdict
	Use of markings or symbols:		N
	Information of user instructions, maintenance and/or servicing instructions:		N
EE.3	Inadvertent reactivation test:		N
EE.4	Disconnection of power to hazardous moving parts		N
	Use of markings or symbols:		N
EE.5	Protection against hazardous moving parts		N
	Test with test finger (Figure 2A)		N
	Test with wedge probe (Figure EE1 and EE2):		N



Page 27 of 36 Report No.: GTS201904000038S01

1.5.1	TAE	BLE: List of critica	al components				Р
Object/part	No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)		rk(s) of ormity ¹)
AC/DC adapter		FIT ENERGY POWER INTERNATION AL CO., LIMITED	TP12-120100E	Input: 100-240 V~, 50/60 Hz, 0.5A.; Output: 12 VDC, 1A	EN 60950- 1:2006 +A1:2009 +A1:2010 +A12:2011 +A2:2013	PTS (Report No.: PT80046016051 1S-LD01)	
PCB		CAMELOT(QIN G YUAN) HYTEC TECHNOLOGIE S INVESTMENT LTD CO	JL-2	V0,130°C	UL 796	UL E350325	
Alt		Various	Various	V-1 or better, min. 130 °C	UL 796		UL
Enclosure		CH IMEI CORPORATIO N	PA-757(+)	НВ	UL 94	ULI	E56070
Alt		Various	Various	HB or better	UL 94		UL
Supplementa	ary in	formation:				•	



Page 28 of 36

1.6.2	1.6.2 TABLE: Electrical data (in normal conditions)								
U (VDC)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/sta	tus		
12.0	0.76		9.12			Normal condition			
Supplementary information:									
The EUT wa	The EUT was powered by external power supply TP12-120100E.								

Report No.: GTS201904000038S01

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements							
Clearance (cl) and creepage distance (cr) at/of/between: U peak (V) U r.m.s. Required cl (mm) Clearance (cl) and creepage cl (mm)							cr (mm)	
Basic/supplementary:								
Reinforced:								
Supplementary information:								

2.10.5	TABLE: Distance through insulation measurements						
Distance thr	U peak (V)	U rms (V)	Test volt- age (V)	Required DTI (mm)	DTI (mm)		
		1	1				
Supplement	Supplementary information:						



Page 29 of 36 Report No.: GTS201904000038S01

4.3.8	TABLE:	Batteries							N
The tests of data is not		applicable	only when app	oropriate b	attery				N
Is it possib	le to install	the battery	in a reverse p	olarity pos	sition?	No			N
	Non-re	echargeable	e batteries			Rechargeal	ble batterie	es	
	Discharging Un- intentional		Cha	rging	Disch	arging		ersed rging	
	Meas. current	Manuf. Specs.	charging			Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition									
Max. current during fault condition									
Test results	· ·								Verdict
- Chemical									N
- Explosion of the battery							N		
	- Emission of flame or expulsion of molten metal							N	
			nent after com	pletion of	tests				N
Supplemen	ntary inform	nation:							

4.5 TABLE: Thermal requ	irements										Р
Supply voltage (V=) .	Supply voltage (V==)										
Ambient T _{min} (°C)		:	25.	.1							
Ambient T _{max} (°C)		:	25.	.6							
Maximum measured temperature T	of part/at:	:	Norr T (°								Allowed T _{max} (°C)
Input cord			29.	.4							80
Input terminal			31.	.3							85
PCB near MCU			42.	.6							130
PCB near Conector			41.	.9							130
PCB near U2			42.	.1							130
Enclosure inside			31.	.5							Ref.
Enclosure outside				.2							95
Temperature T of winding:	ature T of winding: t_1 (°C) R_1		(Ω)	t ₂	(°C)	R	ξ ₂ (Ω)	T	(°C)	Allowed T _{max} (°C)	Insulation class



Report No.: GTS201904000038S01 Page 30 of 36

Supplementary information:

The EUT was powered by external power supply TP12-120100E

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

4.7	TABLE:	BLE: Resistance to fire						
Par	t	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	E	vidence	
Enclosure		See table 1.5.1						
Supplement	ary inform	nation:						

5.2	TABLE: Electric strength tests	TABLE: Electric strength tests, impulse tests and voltage surge tests							
Test voltage applied between:		Voltage shap (AC, DC, impulse, surge	(V)	Breakdo wn Yes / No					
Basic/su	pplementary:			•					
Reinforc	ed:			•					
Supplem	entary information:								

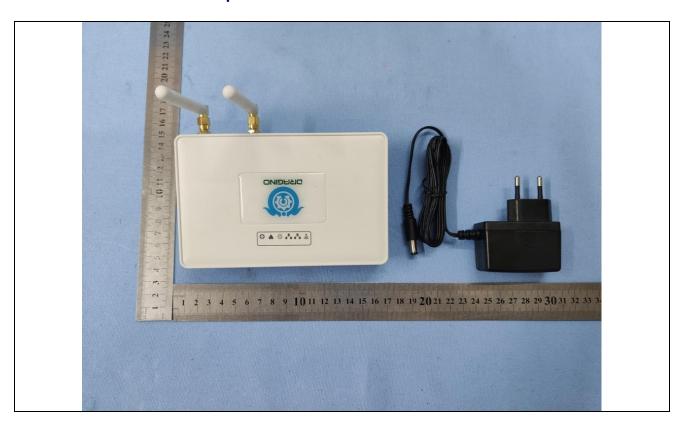
5.3	TABLE: Fa	ult conditio	n tests					Р
	Ambient ter	mperature (°	C)		:	25.2	_	
		ce for EUT: I				_		
Component No.	Fault	Supply voltage (VDC)	Test time	Fuse #	cur	ise rent A)	Observation	
USB terminal	o-l	12	4h30min	1	-		Unit shut down when US overloaded with 1.26A, I damage, No hazards, ur conditions established.	No ·
C14	S-C	12	10 min		-	-	Unit shut down, No dam hazards.	aged, No
C3	S-C	12	10 min		-	-	Unit shut down, No dam hazards.	aged, No
U12	s-c pin 1- 10	12	10 min		-	 Unit shut down, No dan hazards. 		naged, No
Supplementar	y information:	<u> </u>	1					

The EUT was powered by external power supply TP12-120100E



Page 31 of 36 Report No.: GTS201904000038S01

Attachment: Photos of the product

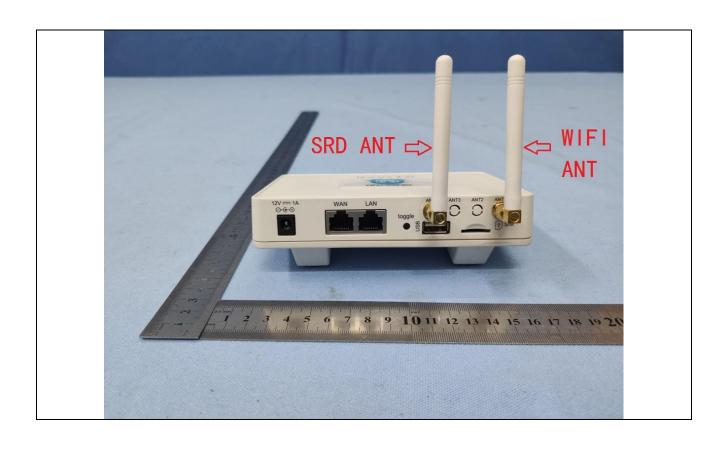




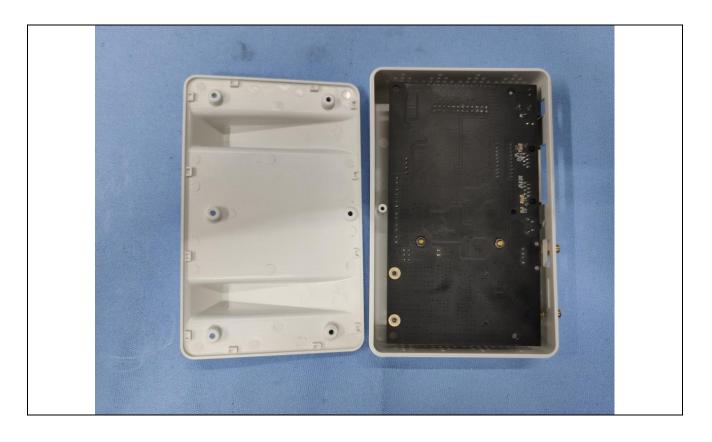




Report No.: GTS201904000038S01



Page 32 of 36





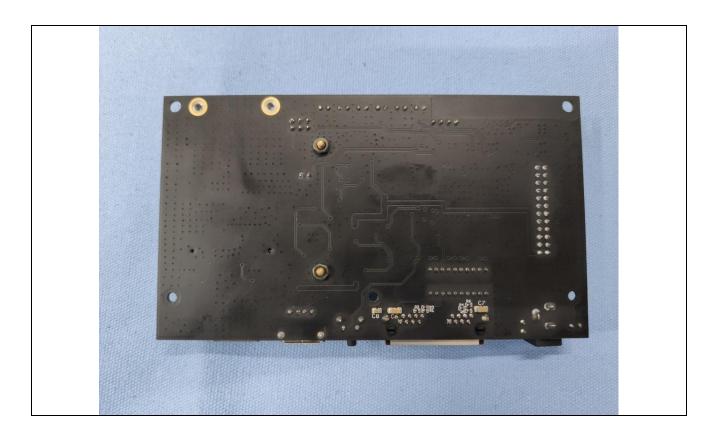


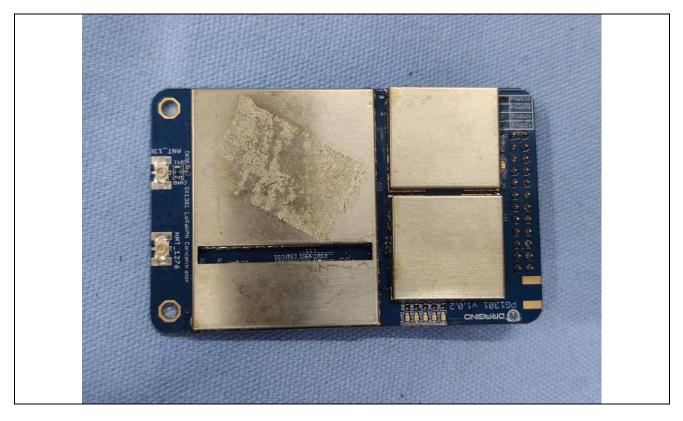








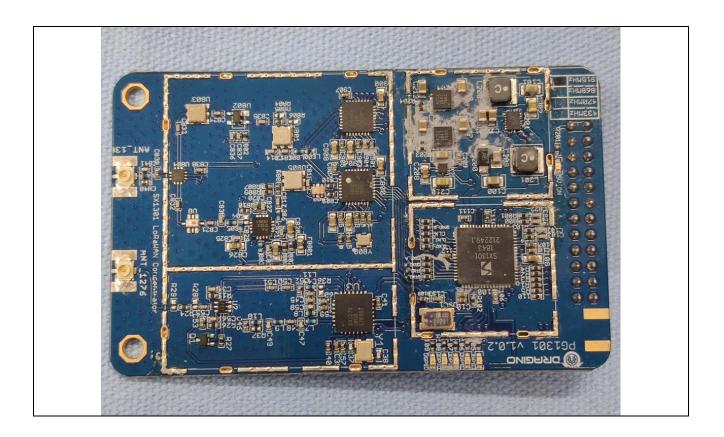


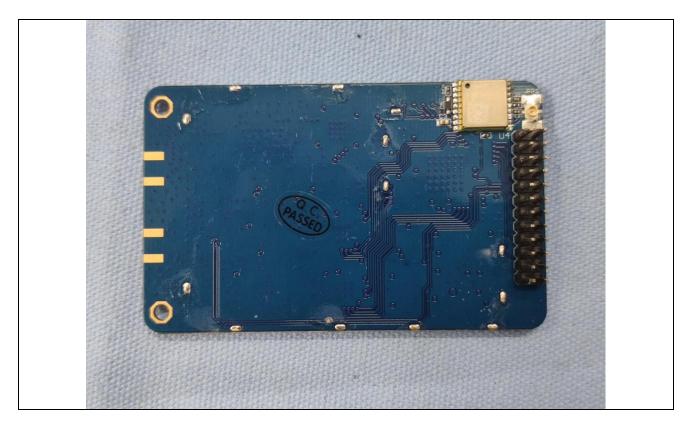




Report No.: GTS201904000038S01









Page 36 of 36 Report No.: GTS201904000038S01



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