Uni-Trend Technology (China) Co., Ltd

TEST REPORT

SCOPE OF WORK
EMC TESTING–UT503PV

REPORT NUMBER
231211156GZU-001

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TEST REPORT

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Manufacturing Site	:	Same as applicant
Intertek Report No:		231211156GZU-001

Test standards

EN IEC 61326-1:2021
EN IEC 61326-2-2:2021

Sample Description

Product	:	PV Insulation Tester
Model No.	:	UT503PV
Electrical Rating	:	Powered: 6 x 1.5V LR6 AA
Serial No.		Not Labeled
Date Received	:	11 December 2023
Date Test Conducted	:	11 December 2023 to 02 April 2024

Prepared and Checked By

Jed Guo

Project Engineer

Approved By:

Sky Zhu

Team Leader

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1. TEST RESULTS SUMMARY

Test Item	Standard	Result
Conducted disturbance voltage at mains ports	EN IEC 61326-1, EN IEC 61326-2-2 Reference: EN 55011:2016+A1:2017+A11:2020+A2:2021	N/A
Radiated emission	EN IEC 61326-1, EN IEC 61326-2-2 Reference: EN 55011:2016+A1:2017+A11:2020+A2:2021	Pass
ESD immunity	EN IEC 61326-1, EN IEC 61326-2-2 Reference: EN 61000-4-2:2009	Pass
Radiated EM field immunity	EN IEC 61326-1, EN IEC 61326-2-2 Reference: EN 61000-4-3:2006 +A1:2008+A2:2010	Pass
EFT immunity	EN IEC 61326-1, EN IEC 61326-2-2 Reference: EN 61000-4-4:2012	N/A
Surge immunity	EN IEC 61326-1, EN IEC 61326-2-2 Reference: EN 61000-4-5:2014+A1:2017	N/A
Inject current immunity	EN IEC 61326-1, EN IEC 61326-2-2 Reference: EN 61000-4-6:2014	N/A
Power frequency magnetic field immunity	EN IEC 61326-1, EN IEC 61326-2-2 Reference: EN 61000-4-8:2010	N/A
Voltage dips and interruption immunity	EN IEC 61326-1, EN IEC 61326-2-2 Reference: EN IEC 61000-4-11: 2020	N/A

Remark:
1. The symbol “N/A” in above table means Not Applicable.
2. When determining the test results, measurement uncertainty of tests has been considered.
3. The EUT belonging to Class B, Group 1 equipment, as requirement by EN 55011.

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2. EMC RESULTS CONCLUSION

RE: EMC Testing Pursuant to Radio Equipment Directive 2014/53/EU Performed on the PV Insulation Tester, Model: UT503PV.

We tested the PV Insulation Tester, Model: UT503PV to determine if it was in compliance with the relevant EN IEC standards as marked on the Test Results Summary. We found that the unit met the requirement of EN IEC 61326-1: 2021 and EN IEC 61326-2-2: 2021 standards when tested as received. The worst case's test data was presented in this test report.

The production units are required to conform to the initial sample as received when the units are placed on the market.

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3. LABORATORY MEASUREMENTS

Configuration Information

Support Equipment:	N/A
Rated Voltage and frequency under test:	6 x 1.5V
Condition of Environment:	Temperature: 22~28°C Relative Humidity:35~60% Atmosphere Pressure:86~106kPa

Notes:

1. The EMI measurements had been made in the operating mode produced the largest emission in the frequency band being investigated consistent with normal applications. An attempt had been made to maximize the emission by varying the configuration of the EUT.

2. The EMS measurements had been made in the frequency bands being investigated, with the EUT in the most susceptible operating mode consistent with normal applications. The configuration of the test sample had been varied to achieve maximum susceptibility.

3. Test Location:
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
All tests were performed at:
Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China
Except Radiated Disturbance and Radiated Susceptibility were performed at:
Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

4. Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission (9 kHz-150 kHz)	2.54 dB
2	Conducted Emission (150 kHz-30 MHz)	2.56 dB
3	Disturbance Power (30 MHz-300 MHz)	3.13 dB
4	Radiated Emission (9 kHz-30 MHz)	4.15 dB
5	Radiated Emission (30 MHz-1 GHz)	4.62 dB
6	Radiated Emission (1 GHz-6 GHz)	4.67 dB
7	Radiated Emission (6 GHz-18 GHz)	4.76 dB

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.
Measurement uncertainty is calculated in accordance with CISPR16-4-2:2011+A1:2014 +A2:2018.
The measurement uncertainty is given with a confidence of 95%, k=2.
Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

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4. EQUIPMENT USED DURING TEST

Radiated Disturbance（30 MHz-1 GHz）

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m3	ETS-LINDGREN	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	1Y
EM033-01	TRILOG Super Broadband test Antenna（30 MHz-3 GHz）	VULB 9163	SCHWARZBECK	1Y
EM031-02-01	Coaxial cable	/	R&S	1Y
EM036-01	Common-mode absorbing clamp	CMAD 20B	TESEQ	1Y
SA047-118	Digital Temperature-Humidity Recorder	RS210	YIJIE	1Y
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	N/A

Electrostatic Discharge (1)

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM077-04	ESD Simulator	NSG437	TESEQ	1Y
SA047-176	Digital Temperature-Humidity Recorder	RS210	YIJIE	1Y

Radiated Susceptibility

Equipment No.	Equipment	Model	Manufacturer	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m^3	ETS LINDGREN	1Y
EM031-01	Signal generator	SMB100A	R&S	1Y
EM086-11	Power meter	NRP2	R&S	1Y
EM086-11-01	Power sensor	NRP-Z91	R&S	1Y
EM046-01	Power Amplifier	80RF1000-300	MILMEGA	1Y
EM046-03	Power Amplifier	AS0860-75-45	MILMEGA	1Y
EM061-05	Log. - Per. Broadband Antenna	VULP 9118 E	SCHWARZBECK	2Y
EM061-07	Stacked Log.-Per. Broadband Antenna	STLP 9149	SCHWARZBECK	2Y
EM034-01	Open Switch and Control Platform	OSP120/1505.3009K12	R&S	1Y
EM045-01-01	EMC32 software (RE/RS)	V10.01.00	R&S	1Y
SA047-118	Digital Temperature-Humidity Recorder	RS210	YIJIE	1Y

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Detail of the equipment calibration due date:

Equipment No.	Cal. Due date (DD-MM-YYYY)
Conducted Disturbance-Mains Terminal (1)	
EM080-05	06/06/2024
EM006-05	06/06/2024
SA047-112	22/10/2024
EM004-04	03/01/2025
Conducted Disturbance-Mains Terminal (2)	
EM031-04	04/01/2025
EM006-06	04/09/2024
SA047-111	22/10/2024
EM004-03	03/01/2025
EM031-04-01	N/A
Conducted Disturbance-Load and Control Terminal (1)	
EM080-05	06/06/2024
EM080-05-01	04/09/2024
SA047-112	22/10/2024
EM004-04	03/01/2025
Conducted Disturbance-Load and Control Terminal (2)	
EM080-05	06/06/2024
EM005-06-01	04/09/2024
SA047-112	22/10/2024
EM004-04	03/01/2025
Conducted Disturbance-Telecom Terminal	
EM080-05	06/06/2024
EM011-05	09/04/2025
EM011-06	09/04/2025
EM006-06	04/09/2024
SA047-112	22/10/2024
EM004-04	03/01/2025
Conducted Disturbance-Antenna Terminal	
EM031-04	04/01/2025
EM084-02	19/07/2024
EM041-01	15/01/2025
EM041-02	15/01/2025
SA047-111	22/10/2024
EM004-03	03/01/2025
Click (1)	
EM008-02	15/11/2024
EM006-06	04/09/2024
SA047-111	22/10/2024
EM004-03	03/01/2025
Click (2)	
EM008-02	15/11/2024
EM008-02-01	15/11/2024
EM032-02	13/07/2024
SA047-111	22/10/2024
EM004-03	03/01/2025
Disturbance Power	
EM080-05	06/06/2024
EM081-04	26/02/2025
SA047-112	22/10/2024
EM004-04	03/01/2025

Equipment No.	Cal. Due date (DD-MM-YYYY)
Radiated Disturbance (CDN Method)	
EM080-05	06/06/2024
EM003-02	12/11/2024
EM003-03	12/11/2024
EM046-04-03	03/03/2025
EM032-02-01	13/07/2024
EM032-02-02	13/07/2024
SA047-112	22/10/2024
EM004-04	03/01/2025
Radiated electromagnetic disturbances (9 kHz-30 MHz)	
EM031-04	04/01/2025
EM061-04	03/03/2025
SA047-111	22/10/2024
EM004-03	03/01/2025
Radiated Disturbance (9 kHz-30 MHz)	
EM030-04	09/04/2025
EM031-02	15/11/2024
EM011-04	02/07/2024
EM031-02-01	09/04/2025
SA047-118	16/07/2024
EM045-01-01	N/A
Radiated Disturbance (30 MHz-1 GHz)	
EM030-04	09/04/2025
EM031-02	15/11/2024
EM033-01	05/12/2024
EM031-02-01	09/04/2025
EM036-01	17/07/2024
SA047-118	16/07/2024
EM045-01-01	N/A
Radiated Disturbance (1-18 GHz)	
EM030-04	09/04/2025
EM031-02	15/11/2024
EM031-03	12/11/2024
EM033-02	02/07/2024
EM033-02-02	09/04/2025
EM022-03	09/05/2024
SA047-118	16/07/2024
EM045-01-01	N/A
Harmonic Currents and Flicker (1)	
EM001-02	12/11/2024
SA047-111	22/10/2024
Harmonic Currents and Flicker (2)	
EM001-03	04/09/2024
EM001-03-01	04/09/2024
SA047-102	16/07/2024
EMF	
EM007-03	10/03/2025
SA047-112	22/10/2024
Induced Current Density (20 kHz-10 MHz)	
EM031-04	04/01/2025
EM007-02	08/01/2025
SA047-111	22/10/2024

Equipment No.	Cal. Due date (DD-MM-YYYY)
Electrostatic Discharge (1)	
EM077-04	20/08/2024
SA047-176	04/01/2025
Electrostatic Discharge (2)	
EM077-02	06/06/2024
SA047-176	04/01/2025
Electrical Fast Transient/Burst (1)	
EM005-12	09/04/2025
EM005-10-01	09/04/2025
SA047-102	16/07/2024
Electrical Fast Transient/Burst (2)	
EM005-10	11/05/2024
EM005-10-01	09/04/2025
SA047-102	16/07/2024
Surge (2)	
EM005-08	13/07/2024
SA047-102	16/07/2024
Surge (3)	
EM005-09	06/06/2024
SA047-102	16/07/2024
Conducted Susceptibility (1)	
EM046-04	07/12/2024
EM084-02	17/03/2025
EM003-01-04	04/09/2024
EM046-04-03	03/03/2025
EM019-01-01	04/09/2024
EM019-03	13/07/2024
SA047-102	16/07/2024
Conducted Susceptibility (2)	
EM019-01	09/04/2025
EM019-01-01	04/09/2024
EM019-01-02	04/09/2024
EM019-01-03	04/09/2024
EM019-03	13/07/2024
SA047-102	16/07/2024
Voltage Dips and Interruptions (2)	
EM005-09	06/06/2024
EM005-09-01	06/06/2024
SA047-102	16/07/2024
Radiated Susceptibility	
EM030-04	09/04/2025
EM031-01	17/03/2025
EM086-11	12/11/2024
EM086-11-01	12/11/2024
EM046-01	03/03/2025
EM046-03	04/09/2024
EM061-05	09/10/2025
EM061-07	09/10/2025
EM034-01	/
EM045-01-01	/
SA047-118	16/07/2024
Power Frequency Magnetic Field	
EM001-03	04/09/2024
EM001-03-02	04/09/2024
SA047-102	16/07/2024
Ring Wave	
EM005-11	09/04/2025
SA047-102	16/07/2024

5. EMI TEST

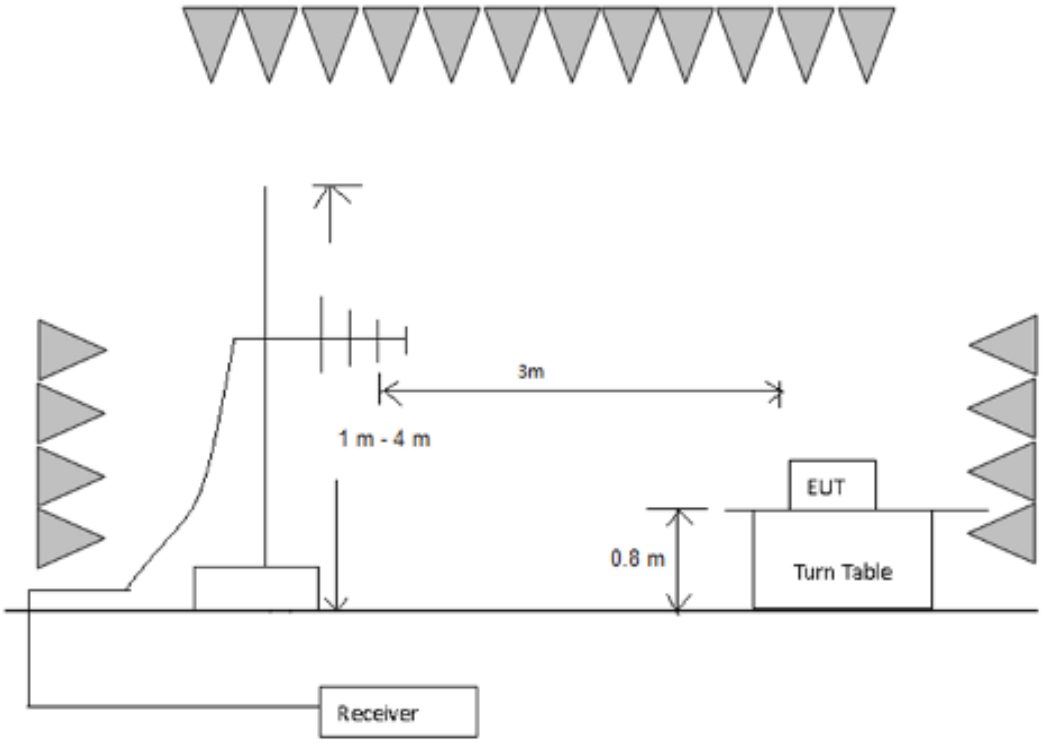
5.1 Continuous Conducted Disturbance Voltage Test

Test Result: N/A

5.2 Radiated Emission below 1 GHz

Test Result: Pass

5.2.1 Block Diagram of Test Setup



5.2.2 Test Setup and Procedure

The measurement was applied in a semi-anechoic chamber. The EUT and simulators were placed on a 0.8m high foamed table above the horizontal metal ground plane. The turn table rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mask. The antenna moved up and down between from 1meter to 4 meters to find out the maximum emission level.

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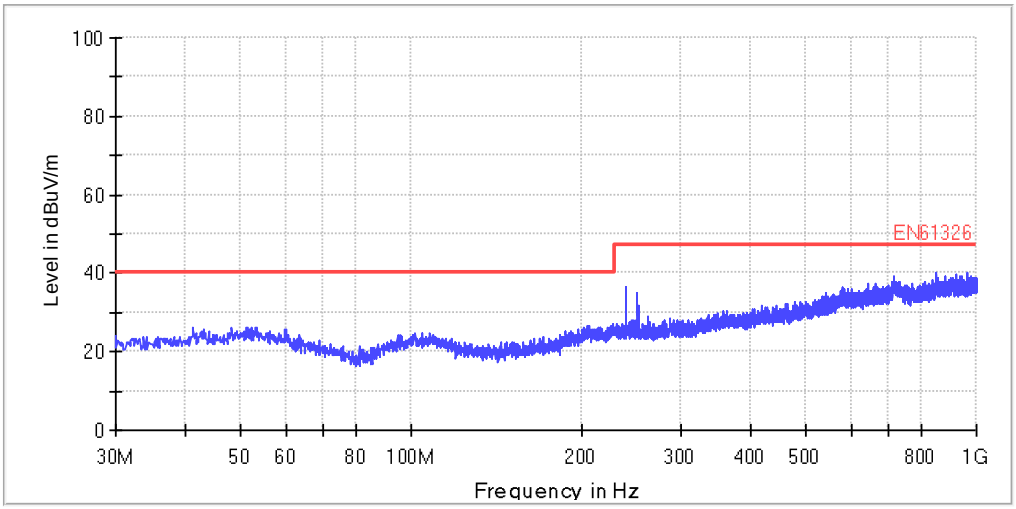
Broadband antenna was used as receiving antenna. Both horizontal and vertical polarization of the antenna was set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to EN 55011 requirement during radiated test.
The bandwidth setting on Test Receiver was 120 kHz.
The frequency range from 30 MHz to 1000 MHz was checked

5.2.3 Test Data and Curve

Operation Mode: voltage measuring mode(worst)
Horizontal



All emission levels are more than 6 dB below the limit.

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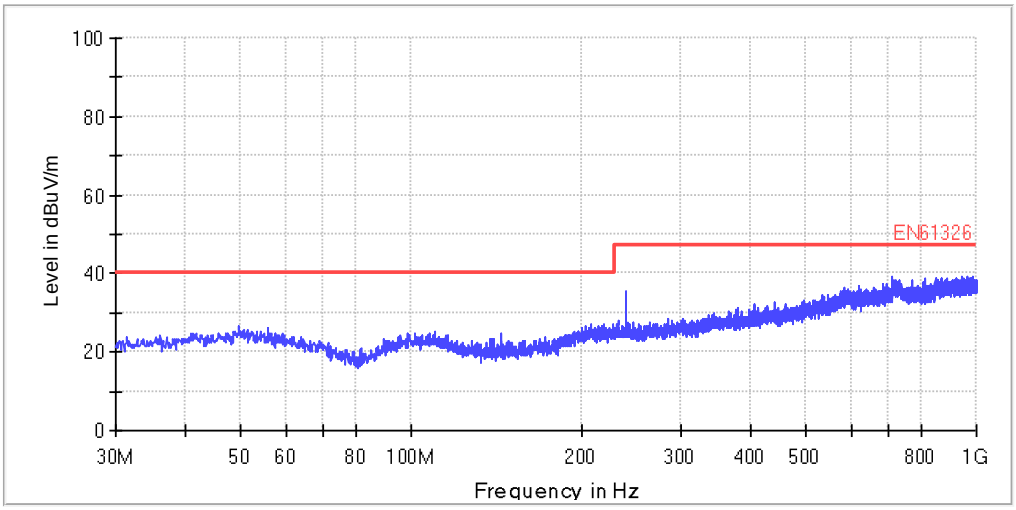
Vertical



All emission levels are more than 6 dB below the limit.

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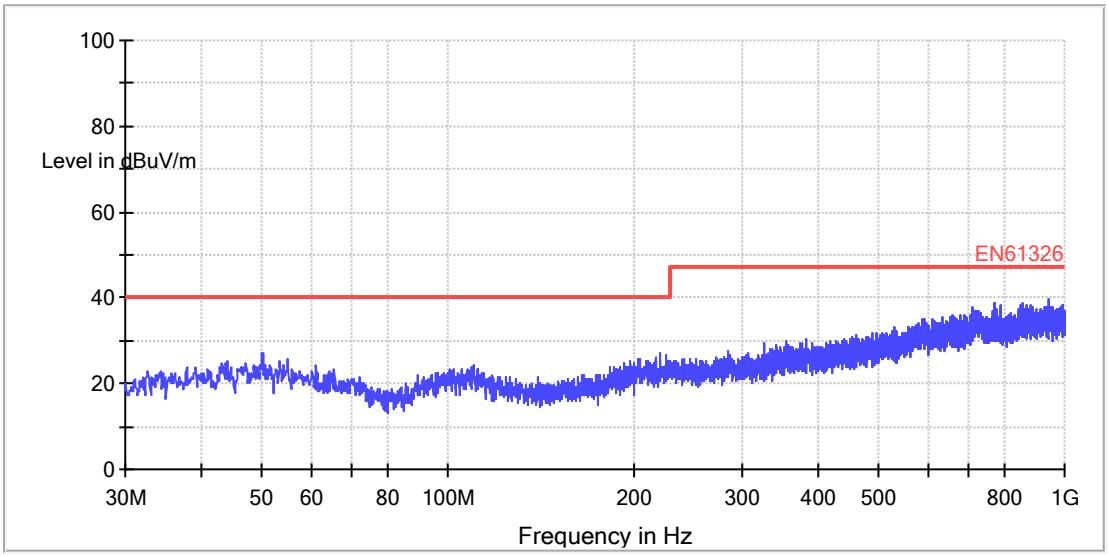
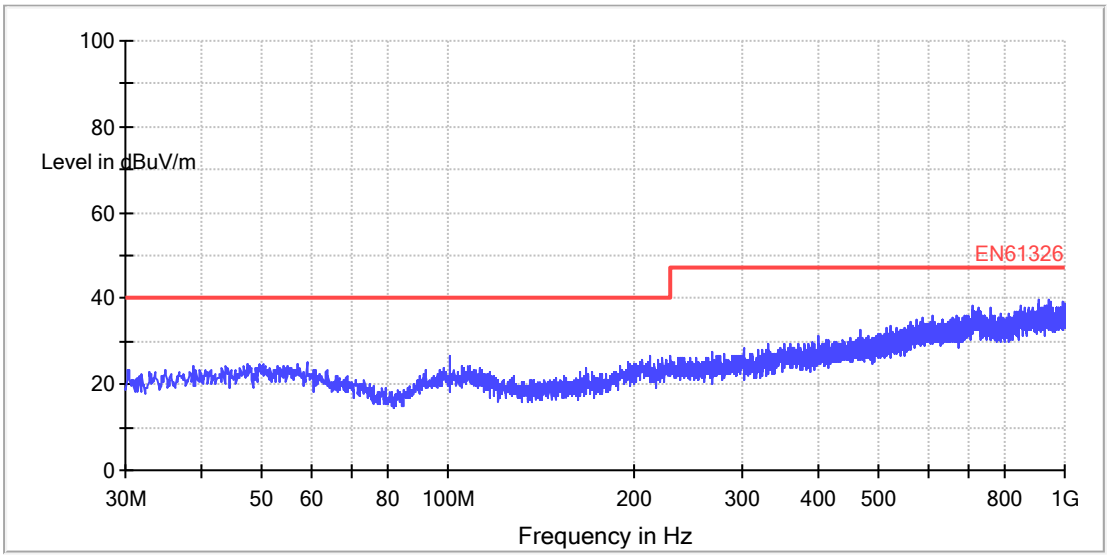
Operation Mode: data transmit mode
Horizontal



All emission levels are more than 6 dB below the limit.

TEST REPORT

Vertical



All emission levels are more than 6 dB below the limit.

6. EMS TEST

Performance Criteria:

Criterion A: The equipment shall continue to operate as intended during and after the test. No DEGRADATION OF PERFORMANCE or LOSS OF FUNCTION is allowed below a PERFORMANCE LEVEL specified in the user documentation, when the equipment is used as intended. In the case of applying immunity tests with continuous electromagnetic phenomena, the PERFORMANCE LEVEL may be replaced by a permissible LOSS OF PERFORMANCE which shall recover, without user intervention. A permissible LOSS OF PERFORMANCE is allowed within the PERFORMANCE LEVEL only when this information is clearly provided to the end user via documentation, such as the product user manual. No change in the operating state is allowed nor is loss of data.

Criterion B: The equipment shall continue to operate as intended after the test. No DEGRADATION OF PERFORMANCE or LOSS OF FUNCTION is allowed below a PERFORMANCE LEVEL specified in the user documentation, when the equipment is used as intended. During the test, the equipment PERFORMANCE LEVEL may be replaced by a permissible LOSS OF PERFORMANCE if such LOSS OF PERFORMANCE is detailed in the EMC test plan. A permissible LOSS OF PERFORMANCE is allowed within the PERFORMANCE LEVEL only when this information is clearly provided to the end user via documentation, such as the product user manual. An unintended change of the operating state is allowed if self-recoverable. No loss of stored data is allowed.

Criterion C: LOSS OF FUNCTION is allowed, provided the function is self-recoverable or can be restored by the operation of the controls. Recovery procedure shall be included in the user documentation. No permanent damage to the equipment is allowed.

Operation mode of EMS test:

Test Item	Operation mode
ESD immunity	Voltage/insulation measuring mode, data transmit mode
Radiated EM field immunity	Voltage/insulation measuring mode, data transmit mode
EFT immunity	N/A
Surge immunity	N/A
Inject current immunity	N/A
Power frequency magnetic field immunity	N/A
Voltage dips and interruption immunity	N/A

Note: "N/A" means Not Applicable in below text.

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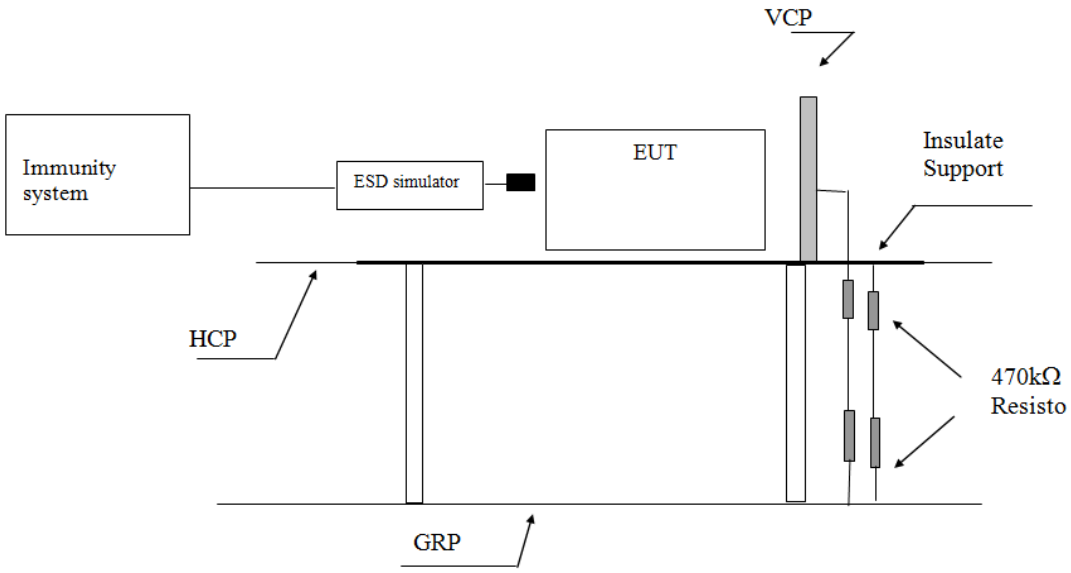
6.1 EN 61000-4-2(Pursuant to EN IEC 61326-1) Electrostatic Discharge Immunity

Performance criterion: B

Test Result: Pass

6.1.1 Block Diagram of Test Setup



Note: HCP means Horizontal Coupling Plane,

VCP means Vertical Coupling Plane

GRP means Ground Reference Plane

6.1.2 Test Setup and Procedure

The EUT was put on a 0.8m high wooden table 0.1m high for floor standing equipment standing on the ground reference plane(GRP) 3m by 2m in size, made by iron 1.0 mm thick.

A horizontal coupling plane(HCP) 1.6m by 0.8m in size was placed on the table, and the EUT with its cables were isolated from the HCP by an insulating support thick than 0.5mm. The VCP 0.5m by 0.5m in size & HCP were constructed from the same material type & thickness as that of the GRP, and connected to the GRP via a 470kΩ resistor at each end.

The distance between EUT and any of the other metallic surface excepted the GRP, HCP & VCP was greater than 1m.

The EUT was arranged and connected according to its functional requirements.

Direct static electricity discharges were applied only to those points and surface which were accessible to personnel during normal usage.

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On each preselected points 10 times of each polarity single discharge were applied. The time interval between successive single discharges was at least 1s.

The ESD generator was held perpendicular to the surface to which the discharge was applied. The discharge return cable of the generator was kept at a distance of 0.2m whilst the discharge was being applied. During the contact discharges, the tip of the discharge electrode was touched the EUT before the discharge switch was operated. During the air discharges, the round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT.

Indirect discharge was conducted to objects placed near the EUT, simulated by applying the discharges of the ESD generator to a coupling plane, in the contact discharge mode.

After each discharge, the ESD generator was removed from the EUT, the generator was then retriggered for a new single discharge. For ungrounded product, a grounded carbon fibre brush with bleeder resistors (2×470 kΩ) in the grounding cable was used after each discharge to remove remnant electrostatic voltage.

For air discharge, a minimum of 10 single air discharges were applied to the selected test point for each such area.

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6.1.3 Test Result

Direct Application of ESD

Direct Contact Discharge

Applied Voltage (kV)	No. of Discharge for each point per polarity	Result	Discharged Points
±4	10	N/A	Accessible metal parts of the EUT Conductive substrate with coating which is not declared to be insulating

Direct Air Discharge

Applied Voltage (kV)	No. of Discharge for each point per polarity	Result	Discharged Points
±2,±4,±8	10	Pass	All accessible points where contact discharge cannot be applied such as Displays, Indicators light, Keyboard, Button, Switch, Knob, Air gap, Slots, Hole and so on

Indirect Application of ESD

Horizontal Coupling Plane under the EUT

Applied Voltage (kV)	No. of Discharge for each point per polarity	Result	Discharged Point
±4	10	Pass	At the front edge of each HCP opposite the centre point of each unit of the EUT

Vertical Coupling Plane beside the EUT

Applied Voltage (kV)	No. of Discharge for each point per polarity	Result	Discharged Point
±4	10	Pass	The centre of the vertical edge of the coupling plane

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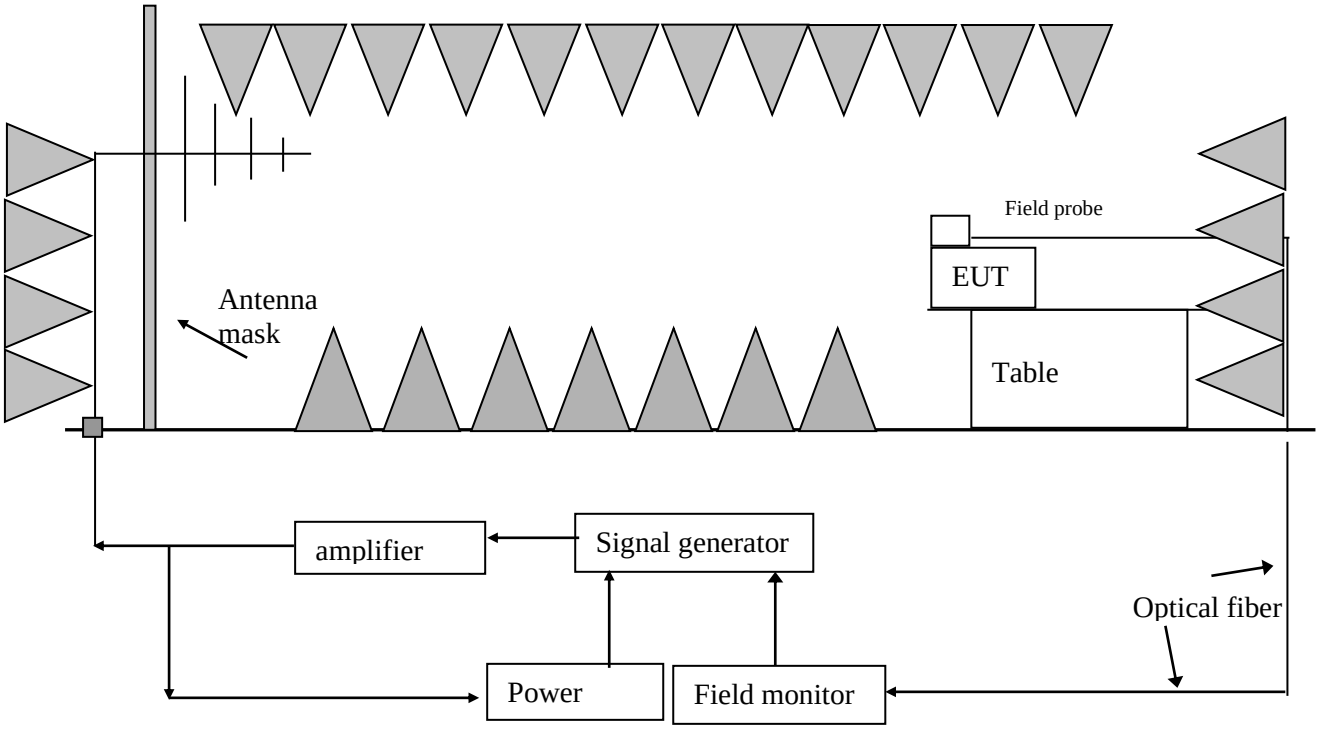
6.2 EN 61000-4-3(Pursuant to EN IEC 61326-1) Radiated Electromagnetic Field Immunity

Performance criterion: A
Test Result: Pass

6.2.1 Block Diagram of Test Setup



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6.2.2 Test Setup and Procedure

The test was conducted in a fully anechoic chamber to maintain a uniform field of sufficient dimensions with respect to the EUT, and also in order to comply with various national and international laws prohibiting interference to radio communications.

The equipment was placed in the test facility on a non-conducting table 0.8m high (for floor standing EUT, is placed on a non-conducting support 0.1m height).

For all ports connected to EUT, manufacturer specified cable type and length was used, for those cables no specification, unshielded cable applied. Wire was left exposed to the electromagnetic field for a distance of 1m from the EUT. The EUT was arranged and connected according to its functional requirements

Before testing, the intensity of the established field strength had been checked by placing the field sensor at a calibration grid point, and with the field generating antenna and cables in the same positions as used for the calibration, the forward power needed to give the calibrated field strength was measured. Spot checks was made at a number of calibration grid points over the frequency range 80MHz to 6000MHz, both polarizations was checked.

After calibration, the EUT was initially placed with one face coincident with the calibration plane.

The frequency range was swept from 80 MHz to 1000 MHz, 1.4 GHz to 2.0 GHz at 3V/m EM field, 2.0 GHz to 6.0 GHz at 1V/m EM field, with the signal 80% amplitude modulated with a 1 kHz sine-wave, pausing to adjust the r.f. signal level.

The dwell time at each frequency was 3s so as that the EUT to be exercised and be able to respond.

The step size was 1% of the fundamental with linear interpolation between calibrated points. Test was performed with the generating antenna facing each of the four sides of the EUT.

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6.2.3 Test Result

Frequency (MHz)	Exposed Side	Field Strength (V/m)	Result
80 to 1000, 1400-2000	Front	3V/m (r.m.s.)	Pass
80 to 1000, 1400-2000	Left	3V/m (r.m.s.)	Pass
80 to 1000, 1400-2000	Rear	3V/m (r.m.s.)	Pass
80 to 1000, 1400-2000	Right	3V/m (r.m.s.)	Pass

Frequency (GHz)	Exposed Side	Field Strength (V/m)	Result
2.0 to 6.0	Front	1V/m (r.m.s.)	Pass
2.0 to 6.0	Left	1V/m (r.m.s.)	Pass
2.0 to 6.0	Rear	1V/m (r.m.s.)	Pass
2.0 to 6.0	Right	1V/m (r.m.s.)	Pass

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6.3 EN 61000-4-4(Pursuant to EN IEC 61326-1) Electrical Fast Transient/Burst

Tested Port: ☐ AC power ☐ DC power ☐Signal/Control

Performance criterion: B

Test Result: N/A

6.4 EN 61000-4-5(Pursuant to EN IEC 61326-1) Surge Immunity

Tested Port: ☐ AC power ☐ DC power ☐Signal/ Control

Performance criterion: B
Test Result: N/A

6.5 EN 61000-4-6(Pursuant to EN IEC 61326-1) Injected Current (0.15 MHz to 80 MHz)

Tested Port: ☐ AC power ☐ DC power ☐Signal/Control

Performance criterion: A

Test Result: N/A

6.6 EN IEC 61000-4-11(Pursuant to EN IEC 61326-1) Voltage Dips and Interruptions

Tested Port: AC power
Performance criterion: B (only for test level of 0%Ut with 0.5 cycle and 1 cycle), C
Test Result: N/A

6.7 EN 61000-4-8(Pursuant to EN IEC 61326-1) Power Frequency Magnetic Field Immunity

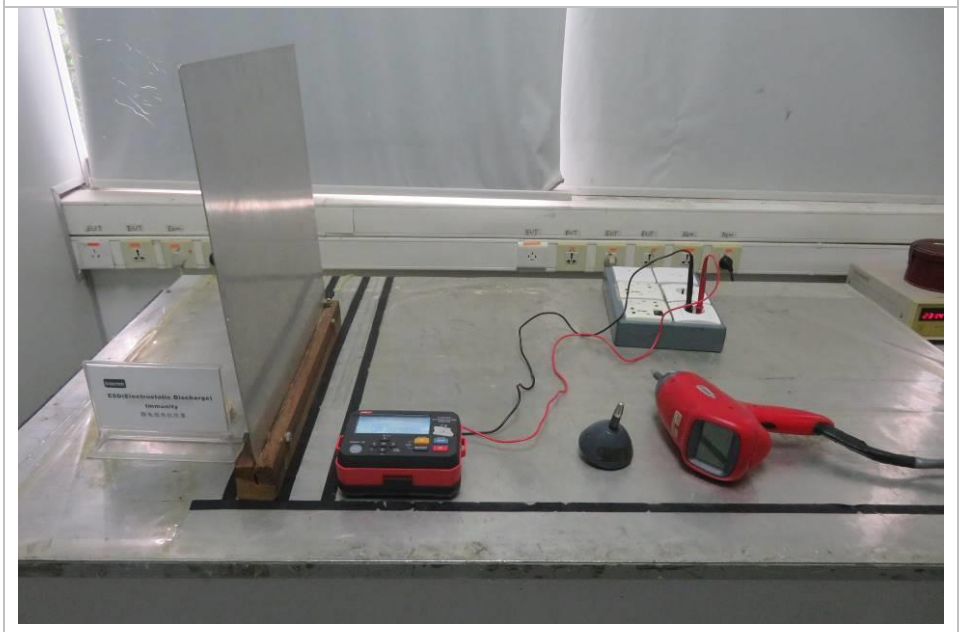
Tested Port: Enclosure
Performance criterion: A
Test Result: Not Applicable
Remark: Equipment containing no Hall elements or magnetic field sensors is not susceptible to magnetic field. Hence, this equipment is deemed to fulfil the magnetic field test.

7. APPENDIX I - PHOTOS OF TEST SETUP

Radiated emission (30 MHz–1000 MHz)

Radiated EM field immunity

TEST REPORT

ESD Immunity


8. APPENDIX II – PHOTOS OF EUT

Photo 1 - Overall view

Photo 2 – Front view

TEST REPORT

Photo 3 - Rear view

Photo 4 - Side view

TEST REPORT

Photo 5 – Battery compartment

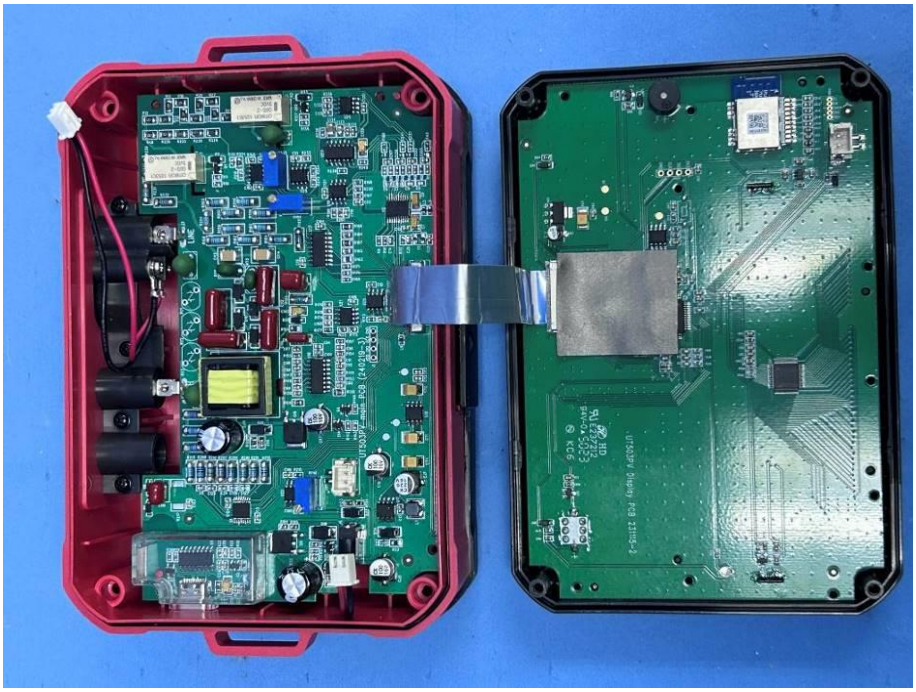


Photo 6 – Internal view

TEST REPORT

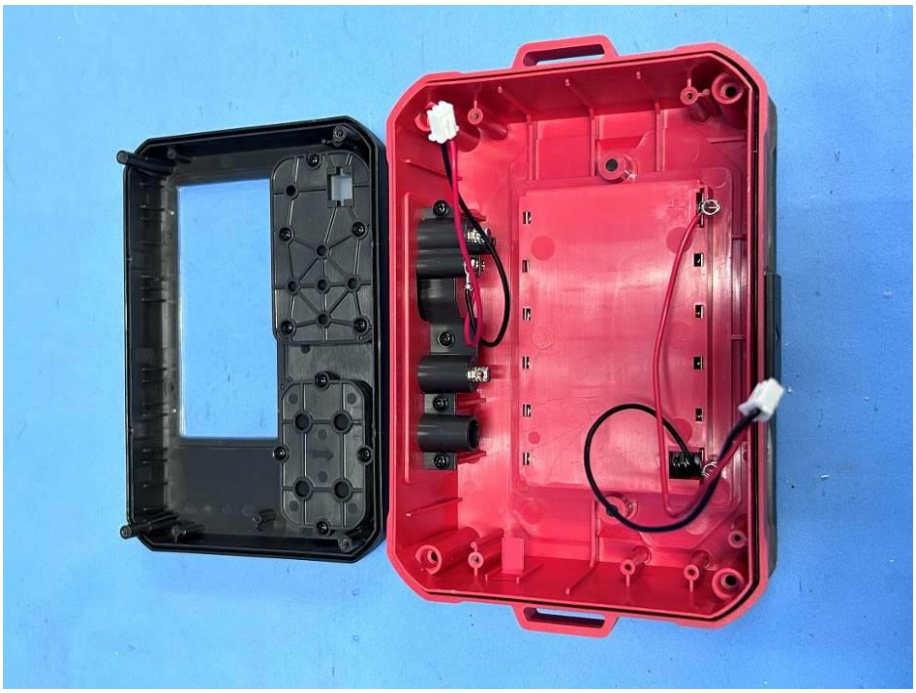


Photo 7 – Internal view

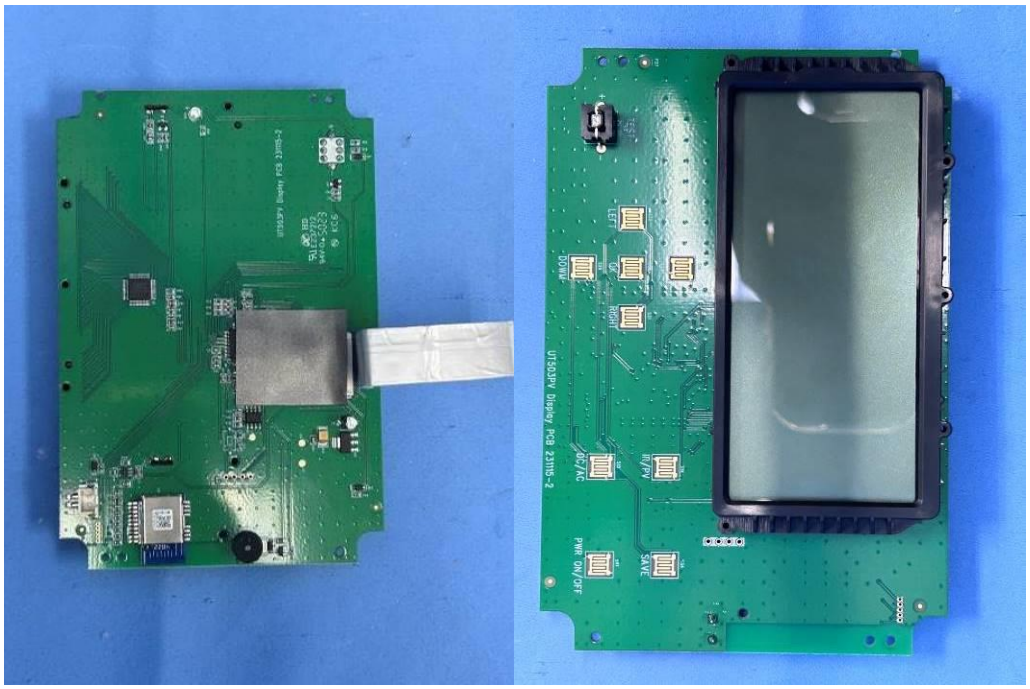


Photo 8 – PCB view (front)

TEST REPORT

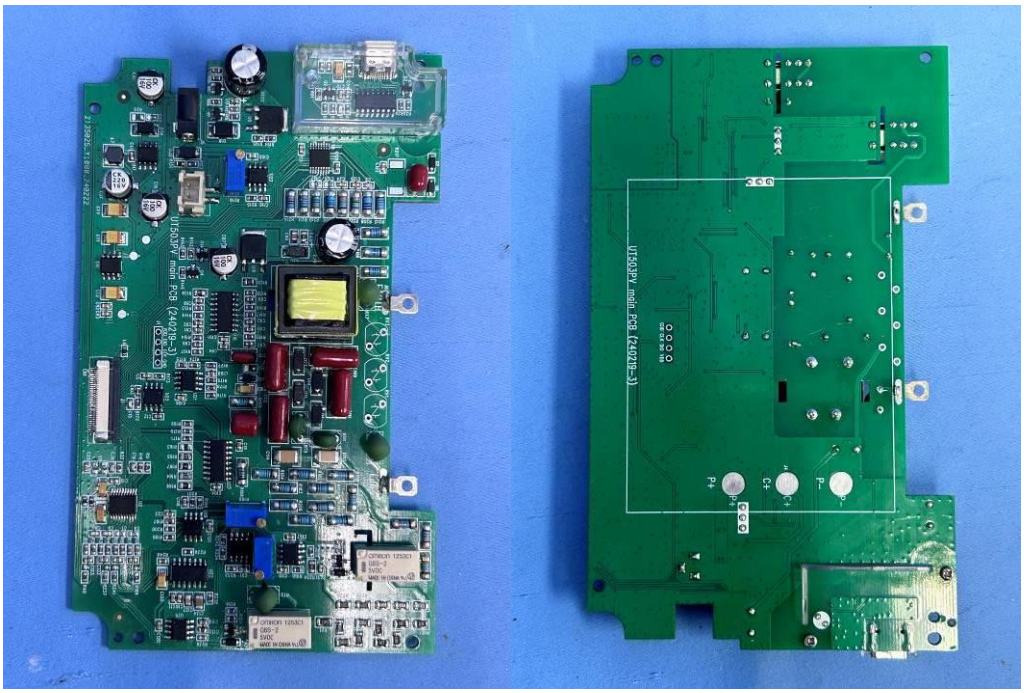


Photo 9 – PCB view (rear)

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