

**SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch**

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900343901

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# TEST REPORT

**Application No.:** SZCR2409003439AT  
**Applicant:** Anker Innovations Limited  
**Address of Applicant:** Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong, China  
**Manufacturer:** Anker Innovations Limited  
**Address of Manufacturer:** Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong, China  
**Factory:** Ten Pao Electronics (Huizhou) Co., Ltd.  
**Address of Factory:** Dongjiang Industrial Area, Shuikou Town, Huizhou City, Guangdong Province, P.R.China

**Equipment Under Test (EUT):**

**EUT Name:** Anker SOLIX Solarbank 2 E1600 AC  
**Model No.:** A17C2, A17C6 ♣  
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Standard(s) :** EN IEC 61000-6-3: 2021  
 EN IEC 61000-6-1: 2019

**Date of Receipt:** 2024-09-05  
**Date of Test:** 2024-09-10 to 2024-09-26  
**Date of Issue:** 2024-09-29

<b>Test Result:</b>	<b>Pass*</b>
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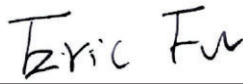
\* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu  
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-09-29		Original

Authorized for issue by:				
				
		Charlie Dai/Project Engineer		
				
		Eric Fu/Reviewer		



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## 2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	EN IEC 61000-6-3: 2021	CISPR 16-2-1: 2014+A1:2017	Table 4.3	Pass
Radiated Emissions (30MHz-1GHz)		CISPR 16-2-3: 2016	Table 3.1	Pass
Radiated Emissions (Above 1GHz)		CISPR 16-2-3: 2016	Table 3.4	Pass
Harmonic Current Emission		EN IEC 61000-3-2: 2019+A1:2021	Class A	N/A
Voltage Fluctuations and Flicker		EN 61000-3-3:2013+A1:2019 +A2:2021	Clause 5	N/A

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN IEC 61000-6-1: 2019	EN 61000-4-2:2009	±4kV Contact Discharge, ±8kV Air Discharge	Pass
Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)		EN IEC 61000-4-3: 2020	3V/m, 80%, 1kHz Amp. Mod.	Pass
Electrical Fast Transients Burst at AC Mains Power Port		EN 61000-4-4:2012	1kV 5/50ns Tr/Td 5kHz or 100kHz Repetition Frequency	Pass
Surge at AC Mains Power Port		EN 61000-4-5:2014+A1:2017	1.2/50µs Tr/Td 1kV Line to Line	Pass
Surge at DC Port		EN 61000-4-5:2014+A1:2017	1.2/50µs Tr/Td 0.5kV Line to Line 1kV Line to Ground	Pass
Conducted Immunity at AC Mains Power Port (150kHz-80MHz)		EN 61000-4-6:2014	3Vrms (emf),80%,1kHz Amp. Mod.	Pass
Power Frequency Magnetic Field		EN 61000-4-8:2010	50Hz 3A/m	Pass
Voltage Dips and Interruptions		EN IEC 61000-4-11:2020	0 % UT for 0.5cycle 0 % UT for 1cycle 70 % UT for 25cycles 0 % UT for 250cycles UT is Supply Voltage	N/A

Remark:

1. N/A means not applicable.



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2. The EUT does not support taking power from the power grid.

Internal Source	Upper Frequency
Below 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5 times the highest frequency or 6 GHz, whichever is less

**Declaration of EUT Family Grouping:**

Model No.: A17C2, A17C6

Only the model A17C2 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on output power of the AC output grid-connected port.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	<p>PV terminal:  Max. PV input voltage: 60Vd.c., Max. PV input current: 16Ad.c.(per channel)  Max. Isc. PV: 20Ad.c., Max. PV input power: 1200W  Operation voltage range: 16-60Vdc  Rechargeable Li-ion Battery: 16Vdc 75Adc 800W 100Ah  AC input:  Max. AC input power: 2000W  Max. AC input: 10Aac, 230Vac  AC output (On-grid terminal):  AC output power: 800W, AC rated output: 220/230/240Va.c. 50/60Hz  Max. AC output current: 3.5Aa.c. 230Va.c.  Off-grid terminal:  Max. AC output power: 2000W, AC rated output: 220/230/240Va.c. 50/60Hz  Max. AC output: 10Aa.c. 230Va.c.</p> <p>Battery terminal:  Battery rated voltage: 16Vd.c., Max. charge current: 75Ad.c.  Max. discharge current: 75Ad.c., Rated power: 800W, Rated capacity:100Ah</p>
Cable(s):	<p>PV cable 299cm *4  Grid AC cable 498cm *1</p>
Internal Source:	Greater than 108MHZ

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Bi-directional power supply	ITECH	IT6018C-800-75	N/A
DC power supply	ZHAOXIN	KXN-6020D	REF. No.SEA27B00
DC power supply	Chroma	62012P-80-60	REF. No.SEA27C00
DC power supply	XANTREX	XFR 100-12	REF. No.SEA27A00
Micro-inverter	ANKER	N/A	N/A



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**4.3 Measurement Uncertainty**

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	± 3.1dB
Radiated Emissions (30MHz-1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB
Electrostatic Discharge	± 6%
Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)	± 2.1dB
Electrical Fast Transients Burst at AC Mains Power Port	± 5.5%
Surge at AC Mains Power Port	± 5.5%
Surge at DC Port	± 5.5%
Conducted Immunity at AC Mains Power Port (150kHz-80MHz)	± 1.5dB
Power Frequency Magnetic Field	± 7%

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None

### 4.8 EMS Monitor

Visual: Monitor the output of the EUT.

Audio: N/A



## 5 Equipment List

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05

Electrostatic Discharge					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
ESD Generator	TESEQ AG	NSG 437	SEM019-02	2024-03-19	2025-03-18



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<b>Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)</b>					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Fully-Anechoic Chamber 2	Chang Zhou Zhong Shuo	854	SEM001-05	2023-06-19	2026-06-18
Power Sensor	Rohde & Schwarz	NRP-Z91	SEM009-09	2024-03-15	2025-03-14
Stacked Log.-Per.-Broadband Antenna	Schwarzbeck	STLP 9129	SEM003-25	N/A	N/A
Signal Generator	Rohde & Schwarz	SMB100A	SEM006-11	2024-03-15	2025-03-14
Broadband Amplifier	Rohde & Schwarz	BBA150-BC250	SEM005-12	2024-08-15	2025-08-14
Broadband Amplifier	Rohde & Schwarz	BBA150-D110	SEM005-13	2024-03-15	2025-03-14
Broadband Amplifier	Rohde & Schwarz	BBA150-E60	SEM005-16	2024-03-15	2025-03-14
Measurement Software	Rohde & Schwarz	EMC32 V9.25.00	N/A	N/A	N/A

<b>Electrical Fast Transients Burst at AC Mains Power Port</b>					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2024-03-15	2025-03-14

<b>Surge at AC Mains Power Port</b>					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2024-03-15	2025-03-14

<b>Surge at DC Port</b>					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2024-03-15	2025-03-14
High Speed Coupling/Decoupling Network	EM Test	CNI 508N2	SEM018-05	2024-03-29	2025-03-28
Lightning Surge Generator	Prima Electronics Co., Ltd.	TVS8/20TC	SEM018-12	2024-08-15	2025-08-14
Coupling network	EM TEST	CNV 504N1	SEM018-10	2024-03-29	2025-03-28
Coupling network	EM TEST	CNV 508T5	SEM018-11	2024-03-29	2025-03-28

<b>Conducted Immunity at AC Mains Power Port (150kHz-80MHz)</b>					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	TST PASS	N/A	SEM001-17	2024-09-11	2027-09-10
RF-Generator	SCHAFFNER	NSG 2070	SEM006-01	2024-08-16	2025-08-15
Coupling/Decoupling Network	SCHAFFNER	CDN M016	SEM007-03	2024-03-27	2025-03-26



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<b>Power Frequency Magnetic Field</b>					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2024-03-15	2025-03-14
Magnetic Field Test Antenna	EM Test	MS100N	SEM018-04	2024-03-15	2025-03-14

<b>Voltage Dips and Interruptions</b>					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2024-03-15	2025-03-14

<b>General used equipment</b>					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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## 6 Emission Test Results

### 6.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement: EN IEC 61000-6-3: 2021  
 Test Method: CISPR 16-2-1: 2014+A1:2017  
 Measurement Distance: 3m

**Limit:**

0.15M-0.5MHz 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average  
 0.5M-5MHz 56dB(μV) quasi-peak, 46dB(μV) average  
 5M-30MHz 60dB(μV) quasi-peak, 50dB(μV) average  
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

#### 6.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

#### 6.1.2 Test Mode Description

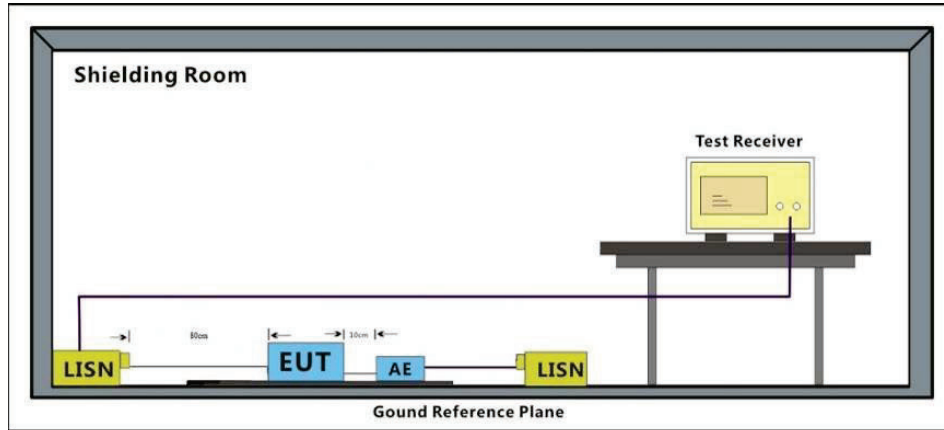
Pre-scan / Final test	Mode Code	Description
Final test	09	Main package + PV in input 1200W + sub-package + grid-connected port output 1200W.
Pre-scan	11	Main package + sub-package + grid-connected port output 1200W.
Pre-scan	17	Main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Pre-scan	18	PV IN 1200W main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Pre-scan	20	PV IN 400W + main package + sub-package + micro-inverter output 800W + grid-connected port input 0W.
Pre-scan	21	PV input 1200W + sub-package + off-grid with load 1200W.
Pre-scan	25	PV IN 1200W + main package + sub-package + micro-inverter output 800W + grid-connected port output.



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

### 6.1.3 Test Setup Diagram



### 6.1.4 Measurement Procedure and Data

Frequency range: 150KHz-30MHz

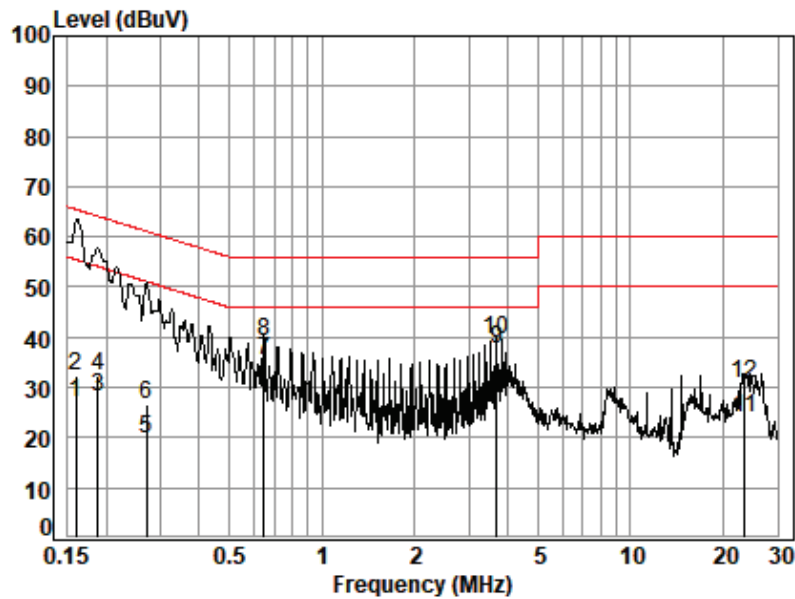
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

The red line show in graphic is the limit in standard used in this section.

Measured Level = Read level + Cable Loss + LISN Factor



Test Mode: 09; Line: Live line



Site : chamber  
 Condition: Line  
 Job No. : 03439AT  
 Test mode: 09

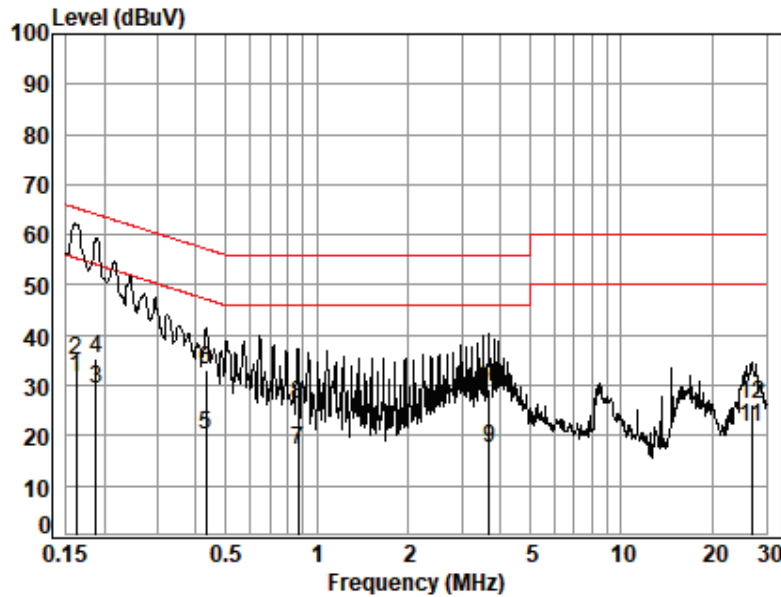
		LISN	Cable	Read	Limit	Over	
	Freq	Factor	Loss	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.16	10.06	0.03	16.72	26.81	55.52	-28.71 Average
2	0.16	10.06	0.03	22.33	32.42	65.52	-33.10 QP
3	0.19	10.05	0.03	17.92	28.00	54.11	-26.11 Average
4	0.19	10.05	0.03	22.25	32.33	64.11	-31.78 QP
5	0.27	10.05	0.04	9.83	19.92	51.12	-31.20 Average
6	0.27	10.05	0.04	16.36	26.45	61.12	-34.67 QP
7	0.65	10.07	0.05	25.16	35.28	46.00	-10.72 Average
8	0.65	10.07	0.05	29.16	39.28	56.00	-16.72 QP
9	3.67	10.05	0.08	27.36	37.49	46.00	-8.51 Average
10 q	3.67	10.05	0.08	29.23	39.36	56.00	-16.64 QP
11	23.51	10.58	0.30	12.94	23.82	50.00	-26.18 Average
12	23.51	10.58	0.30	19.94	30.82	60.00	-29.18 QP



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Test Mode: 09; Line: Neutral Line



Site : chamber  
 Condition: Neutral  
 Job No. : 03439AT  
 Test mode: 09

		LISN	Cable	Read		Limit	Over	
	Freq	Factor	Loss	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	9.56	0.03	21.80	31.39	55.38	-23.99	Average
2	0.16	9.56	0.03	25.43	35.02	65.38	-30.36	QP
3	0.19	9.55	0.03	19.79	29.37	54.11	-24.74	Average
4	0.19	9.55	0.03	25.79	35.37	64.11	-28.74	QP
5	0.43	9.58	0.05	10.63	20.26	47.20	-26.94	Average
6 q	0.43	9.58	0.05	23.63	33.26	57.20	-23.94	QP
7	0.87	9.55	0.06	7.67	17.28	46.00	-28.72	Average
8	0.87	9.55	0.06	16.67	26.28	56.00	-29.72	QP
9	3.67	9.55	0.08	7.70	17.33	46.00	-28.67	Average
10	3.67	9.55	0.08	19.71	29.34	56.00	-26.66	QP
11	26.84	10.22	0.32	10.99	21.53	50.00	-28.47	Average
12	26.84	10.22	0.32	15.64	26.18	60.00	-33.82	QP





**6.2 Radiated Emissions (30MHz-1GHz)**

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: CISPR 16-2-3: 2016

Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dBuV/m (At 10m)	dBuV/m (At 3m)
	Class B	Class B
30 ~ 230	30	40
230 ~ 1000	37	47
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz		

**6.2.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.2 °C

Humidity: 45.8 % RH

Atmospheric Pressure: 1020 mbar

**6.2.2 Test Mode Description**

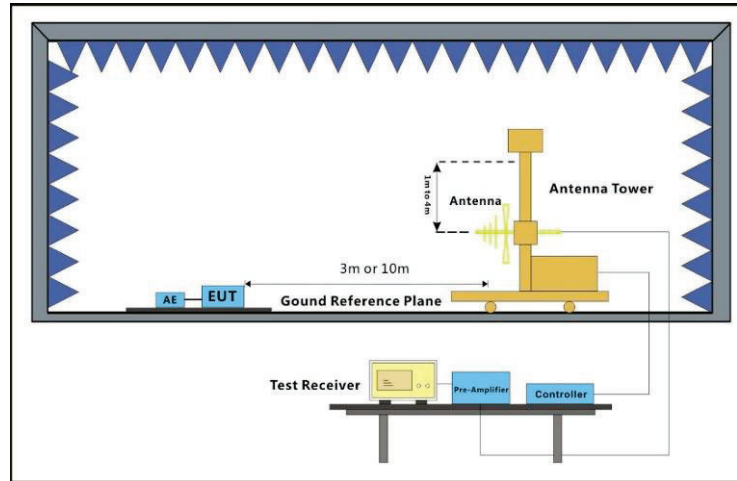
Pre-scan / Final test	Mode Code	Description
Pre-scan	09	Main package + PV in input 1200W + sub-package + grid-connected port output 1200W.
Pre-scan	11	Main package + sub-package + grid-connected port output 1200W.
Pre-scan	17	Main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Pre-scan	18	PV IN 1200W main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Pre-scan	20	PV IN 400W + main package + sub-package + micro-inverter output 800W
Pre-scan	21	PV input 1200W + sub-package + off-grid with load 1200W.
Final test	22	Main package + sub-package + off-grid with load 1200W.
Pre-scan	23	PV IN 1200W + main package + sub-package.
Pre-scan	25	PV IN 1200W + main package + sub-package + micro-inverter output 800W + grid-connected port output.



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### 6.2.3 Test Setup Diagram



### 6.2.4 Measurement Procedure and Data

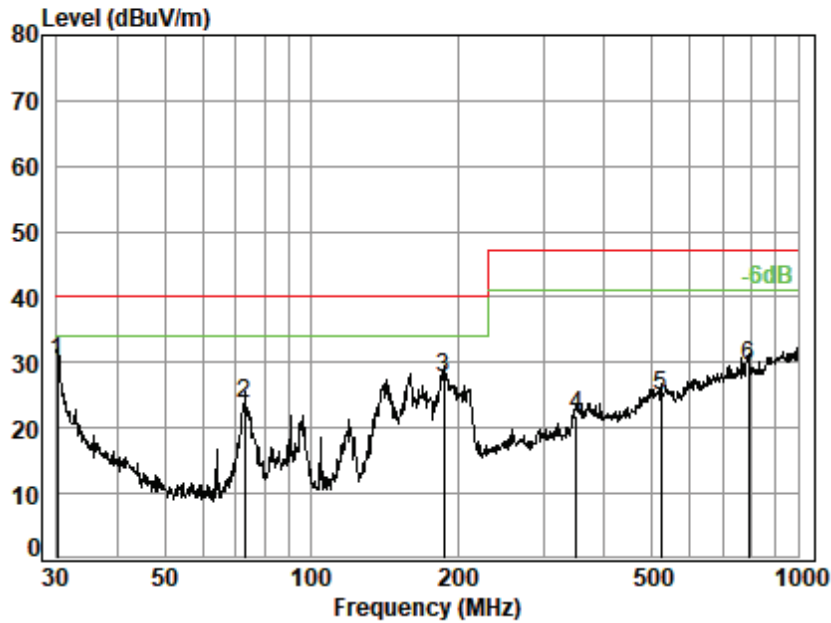
Frequency range: 30MHz-1GHz

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The red line show in graphic is the limit in standard used in this section.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



Test Mode: 22; Polarity: Horizontal

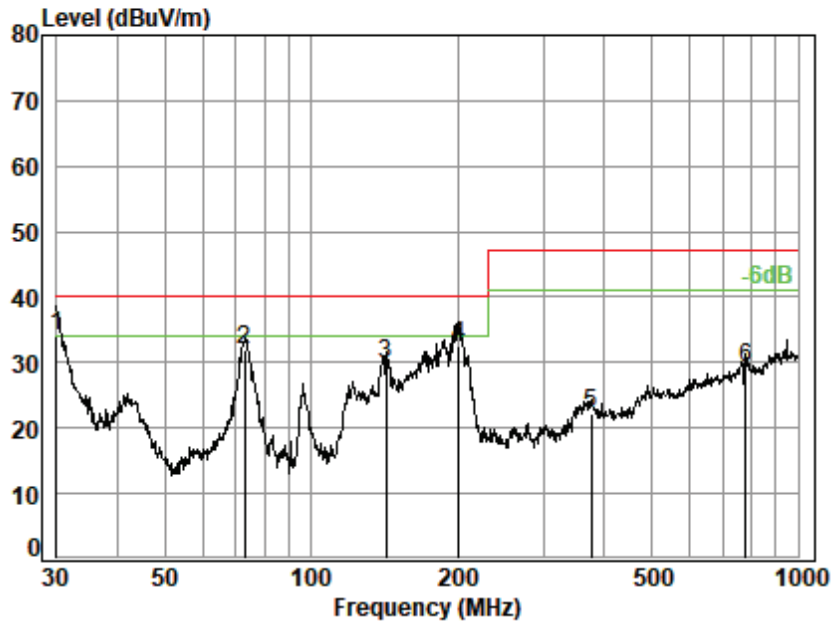


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 03439AT  
 Test Mode: 22

	Ant	Cable	Preamp	Read	Limit	Over			
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	30.11	21.15	0.67	27.79	36.15	30.18	40.00	-9.82	QP
2	73.10	10.43	1.04	27.67	39.79	23.59	40.00	-16.41	QP
3	187.10	14.30	1.71	27.22	38.75	27.54	40.00	-12.46	QP
4	350.48	19.94	2.41	26.96	26.39	21.78	47.00	-25.22	QP
5	522.72	23.28	3.00	27.66	26.18	24.80	47.00	-22.20	QP
6	790.62	27.15	3.83	27.50	25.95	29.43	47.00	-17.57	QP



Test Mode: 22; Polarity: Vertical



Site : chamber  
 Condition: 3m VERTICAL  
 Job No. : 03439AT  
 Test Mode: 22

	Ant	Cable	Preamp	Read	Limit	Over		
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	30.00	21.20	0.67	27.79	39.90	33.98	40.00	-6.02
2	72.85	10.44	1.04	27.67	48.09	31.90	40.00	-8.10
3	142.32	12.07	1.49	27.41	43.51	29.66	40.00	-10.34
4	200.69	14.16	1.76	27.17	43.70	32.45	40.00	-7.55
5	375.94	20.74	2.50	27.06	26.15	22.33	47.00	-24.67
6	779.61	27.03	3.80	27.53	25.93	29.23	47.00	-17.77



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**6.3 Radiated Emissions (Above 1GHz)**

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: CISPR 16-2-3: 2016

Measurement Distance: 3m

Limit:

Frequency range (MHz)	Radiated emissions limit(dBμV/m)	
	Peak	Average
1000-3000	70	50
3000-6000	74	54
Detector: Peak for pre-scan (1MHz resolution bandwidth) 1GHz to 6GHz		

**6.3.1 E.U.T. Operation**

Operating Environment:

Temperature: 21.4 °C

Humidity: 57.9 % RH

Atmospheric Pressure: 1020 mbar

**6.3.2 Test Mode Description**

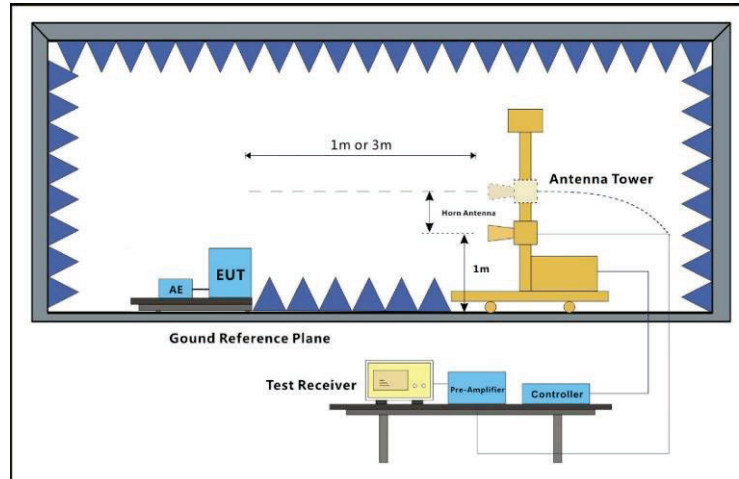
Pre-scan / Final test	Mode Code	Description
Pre-scan	09	Main package + PV in input 1200W + sub-package + grid-connected port output 1200W.
Pre-scan	11	Main package + sub-package + grid-connected port output 1200W.
Pre-scan	17	Main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	18	PV IN 1200W main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Pre-scan	20	PV IN 400W + main package + sub-package + micro-inverter output 800W
Pre-scan	21	PV input 1200W + sub-package + off-grid with load 1200W.
Pre-scan	22	Main package + sub-package + off-grid with load 1200W.
Pre-scan	23	PV IN 1200W + main package + sub-package.
Pre-scan	25	PV IN 1200W + main package + sub-package + micro-inverter output 800W + grid-connected port output.



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### 6.3.3 Test Setup Diagram



### 6.3.4 Measurement Procedure and Data

Frequency range: Above 1GHz

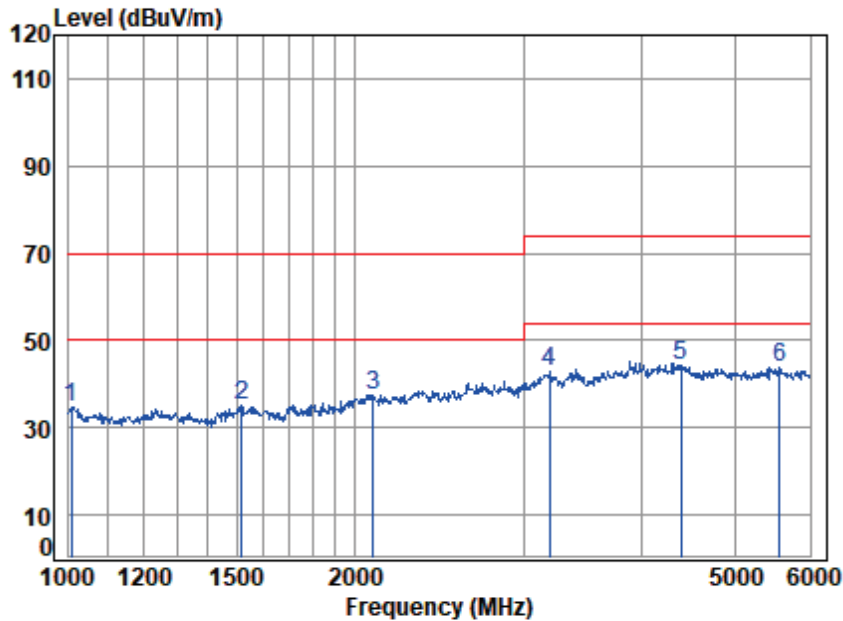
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The red line show in graphic is the limit in standard used in this section.

The EUT was measured by Horn antenna with 2 orthogonal polarities.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



Test Mode: 18; Polarity: Horizontal



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 03439AT  
 Mode : 18

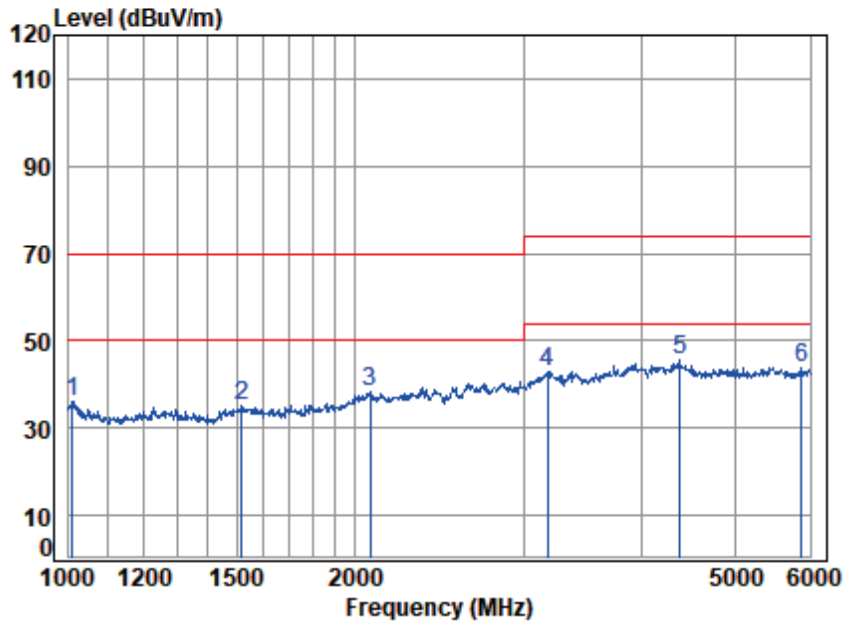
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1005.390	4.55	26.13	61.47	65.57	34.78	70.00	-35.22 peak
2	1518.131	4.61	26.87	61.66	65.22	35.04	70.00	-34.96 peak
3	2088.431	5.73	28.85	61.75	64.59	37.42	70.00	-32.58 peak
4	3199.044	6.78	32.89	61.36	64.55	42.86	74.00	-31.14 peak
5	4392.917	8.00	34.74	61.54	63.20	44.40	74.00	-29.60 peak
6	5575.028	9.33	34.70	62.46	62.04	43.61	74.00	-30.39 peak



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Test Mode: 18; Polarity: Vertical



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 03439AT  
 Mode : 18

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1008.999	4.55	26.01	61.47	66.94	36.03	70.00	-33.97 peak
2	1518.131	4.61	26.87	61.66	65.43	35.25	70.00	-34.75 peak
3	2069.805	5.69	28.92	61.76	65.34	38.19	70.00	-31.81 peak
4	3181.894	6.77	32.76	61.37	64.58	42.74	74.00	-31.26 peak
5	4377.203	8.02	34.62	61.52	64.67	45.79	74.00	-28.21 peak
6	5882.902	9.47	34.53	62.67	62.44	43.77	74.00	-30.23 peak



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## 7 Immunity Test Results

### Performance Criteria Description in EN IEC 61000-6-1:2019

#### Criterion A

The EUT 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 by the manufacturer, when the EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

#### Criterion B

The EUT shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. However, during the test degradation of performance is allowed but no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

#### Criterion C

Temporary loss of function is allowed during the test, provided the function is self-recoverable or can be restored by the operation of the controls.

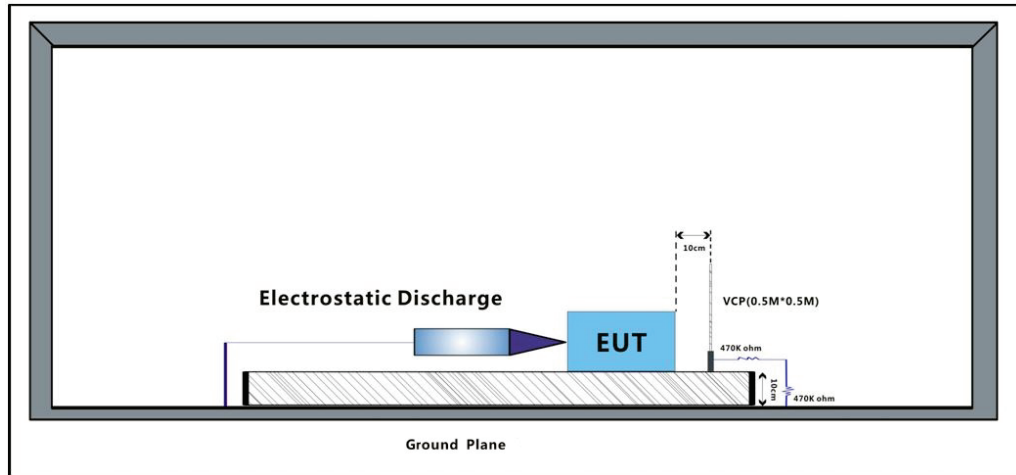


### 7.1 Electrostatic Discharge

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-2:2009

#### 7.1.1 Test Setup Diagram



#### 7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

Humidity: 53.5 % RH

Atmospheric Pressure: 1020 mbar

#### 7.1.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Main package + PV in input 1200W + sub-package + grid-connected port output 1200W.
Final test	11	Main package + sub-package + grid-connected port output 1200W.
Final test	17	Main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	18	PV IN 1200W main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	20	PV IN 400W + main package + sub-package + micro-inverter output 800W
Final test	21	PV input 1200W + sub-package + off-grid with load 1200W.
Final test	22	Main package + sub-package + off-grid with load 1200W.
Final test	23	PV IN 1200W + main package + sub-package.
Final test	25	PV IN 1200W + main package + sub-package + micro-inverter output 800W + grid-connected port output.



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**7.1.4 Test Condition and Results:**

Performance Criterion: B  
 Discharge Impedance: 330Ω/150pF  
 Number of Discharge: Minimum 10 times at each test point  
 Discharge Mode: Single Discharge  
 Discharge Period: 1 second minimum

- Test Point: 1. All insulated enclosure and seams.  
 2. All accessible metal parts of the enclosure.  
 3. All side

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	2,4,8	+	1	A
Air Discharge	2,4,8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

A: No degradation in the performance of the EUT was observed



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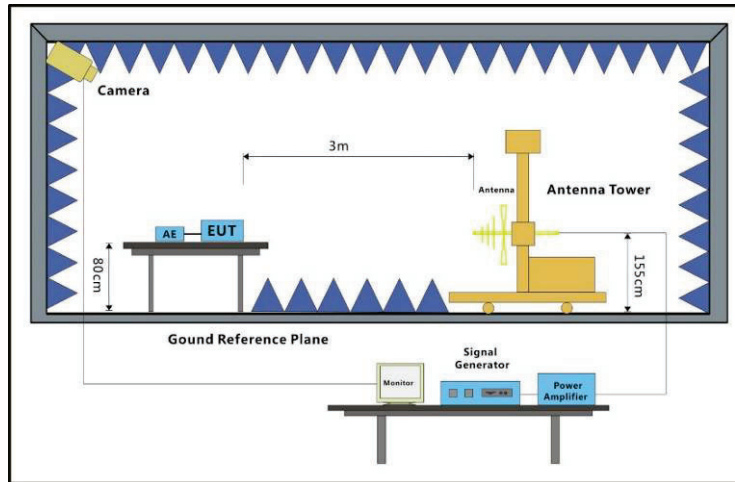
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### 7.2 Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN IEC 61000-4-3: 2020

#### 7.2.1 Test Setup Diagram



#### 7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 48.9 % RH

Atmospheric Pressure: 1020 mbar

#### 7.2.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Main package + PV in input 1200W + sub-package + grid-connected port output 1200W.
Final test	11	Main package + sub-package + grid-connected port output 1200W.
Final test	17	Main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	18	PV IN 1200W main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	20	PV IN 400W + main package + sub-package + micro-inverter output 800W
Final test	21	PV input 1200W + sub-package + off-grid with load 1200W.
Final test	22	Main package + sub-package + off-grid with load 1200W.
Final test	23	PV IN 1200W + main package + sub-package.
Final test	25	PV IN 1200W + main package + sub-package + micro-inverter output 800W + grid-connected port output.





**7.2.4 Test Condition and Results:**

Performance Criterion:A

Antenna Polarisation:Vertical and Horizontal

Modulation:1kHz,80% Amp. Mod,1% increment

Frequency Range:80MHz to 1GHz, 1.4GHz to 6GHz

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	2s	A
80MHz-1GHz	3	Back	2s	A
80MHz-1GHz	3	Left	2s	A
80MHz-1GHz	3	Right	2s	A
80MHz-1GHz	3	Top	2s	A
80MHz-1GHz	3	Underside	2s	A
1.4GHz-6GHz	3	Front	2s	A
1.4GHz-6GHz	3	Back	2s	A
1.4GHz-6GHz	3	Left	2s	A
1.4GHz-6GHz	3	Right	2s	A
1.4GHz-6GHz	3	Top	2s	A
1.4GHz-6GHz	3	Underside	2s	A

A: No degradation in the performance of the EUT was observed



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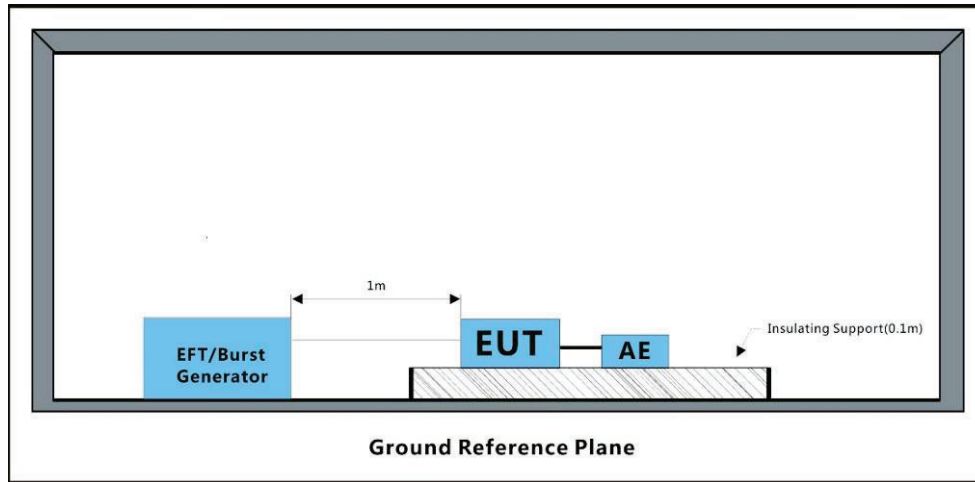
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### 7.3 Electrical Fast Transients Burst at AC Mains Power Port

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-4:2012

#### 7.3.1 Test Setup Diagram



#### 7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C

Humidity: 51.5 % RH

Atmospheric Pressure: 1020 mbar

#### 7.3.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Main package + PV in input 1200W + sub-package + grid-connected port output 1200W.
Final test	11	Main package + sub-package + grid-connected port output 1200W.
Final test	17	Main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	18	PV IN 1200W main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	20	PV IN 400W + main package + sub-package + micro-inverter output 800W
Final test	21	PV input 1200W + sub-package + off-grid with load 1200W.
Final test	22	Main package + sub-package + off-grid with load 1200W.
Final test	23	PV IN 1200W + main package + sub-package.
Final test	25	PV IN 1200W + main package + sub-package + micro-inverter output 800W + grid-connected port output.



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### 7.3.4 Test Condition and Results:

Performance Criterion: B  
 Repetition Frequency: 5kHz or 100kHz  
 Burst Period: 300ms  
 Test Duration: 2 minute per level & polarity

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	1	+	CDN	A
AC power port	1	-	CDN	A
A: No degradation in the performance of the EUT was observed				



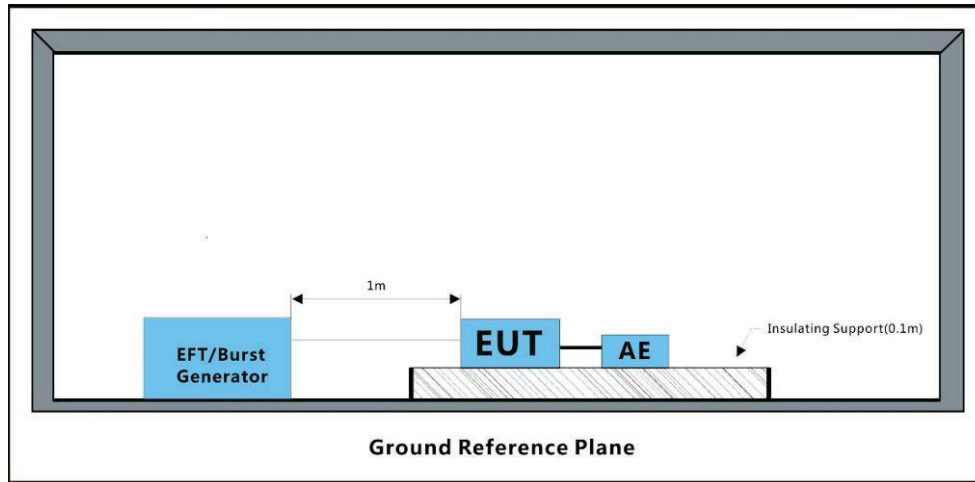
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### 7.4 Surge at AC Mains Power Port

Test Requirement: EN IEC 61000-6-1: 2019  
 Test Method: EN 61000-4-5:2014+A1:2017

#### 7.4.1 Test Setup Diagram



#### 7.4.2 E.U.T. Operation

Operating Environment:  
 Temperature: 26.8 °C      Humidity: 51.5 % RH      Atmospheric Pressure: 1020 mbar

#### 7.4.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Main package + PV in input 1200W + sub-package + grid-connected port output 1200W.
Final test	11	Main package + sub-package + grid-connected port output 1200W.
Final test	17	Main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	18	PV IN 1200W main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	20	PV IN 400W + main package + sub-package + micro-inverter output 800W
Final test	21	PV input 1200W + sub-package + off-grid with load 1200W.
Final test	22	Main package + sub-package + off-grid with load 1200W.
Final test	23	PV IN 1200W + main package + sub-package.
Final test	25	PV IN 1200W + main package + sub-package + micro-inverter output 800W + grid-connected port output.



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**7.4.4 Test Condition and Results:**

Performance Criterion: B

Interval: 60s between each surge

No. of surges: 5 positive, 5 negative at 0°, 90°, 180°, 270°.

Test Line	Level(kV)	Polarity	Phase(deg)	Result/Observations
L-N	1	±	0°	A
L-N	1	±	90°	A
L-N	1	±	180°	A
L-N	1	±	270°	A

A: No degradation in the performance of the EUT was observed



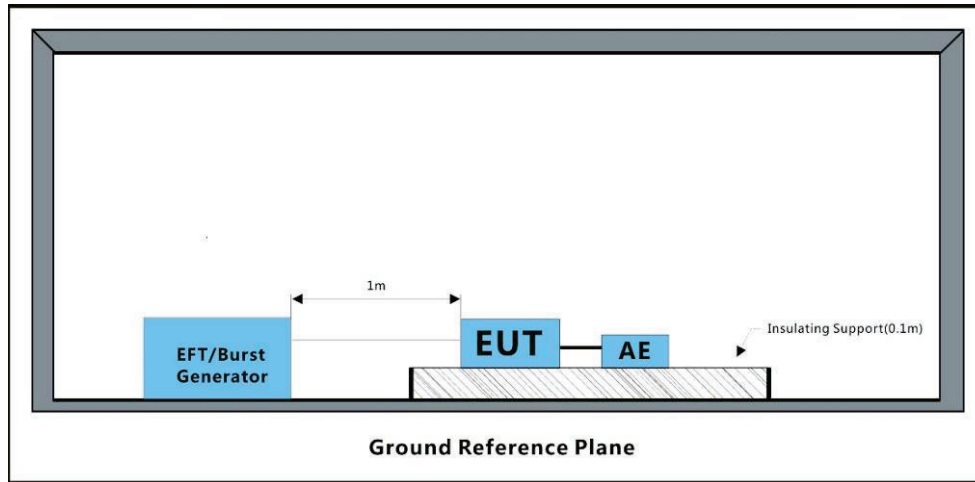
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### 7.5 Surge at DC Port

Test Requirement: EN IEC 61000-6-1: 2019  
 Test Method: EN 61000-4-5:2014+A1:2017

#### 7.5.1 Test Setup Diagram



#### 7.5.2 E.U.T. Operation

Operating Environment:  
 Temperature: 26.8 °C      Humidity: 51.5 % RH      Atmospheric Pressure: 1020 mbar

#### 7.5.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Main package + PV in input 1200W + sub-package + grid-connected port output 1200W.
Final test	18	PV IN 1200W main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	20	PV IN 400W + main package + sub-package + micro-inverter output 800W
Final test	21	PV input 1200W + sub-package + off-grid with load 1200W.
Final test	23	PV IN 1200W + main package + sub-package.
Final test	25	PV IN 1200W + main package + sub-package + micro-inverter output 800W + grid-connected port output.



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### 7.5.4 Test Condition and Results:

Performance Criterion: B  
 Interval: 60s between each surge  
 No. of surges: 5 positive, 5 negative

Test Line	Level (kV)	Polarity	Result / Observations
P-N	0.5	+	A
P-N	0.5	-	A
P-G	0.5	+	A
P-G	0.5	-	A
N-G	0.5	+	A
N-G	0.5	-	A

A: No degradation in the performance of the EUT was observed



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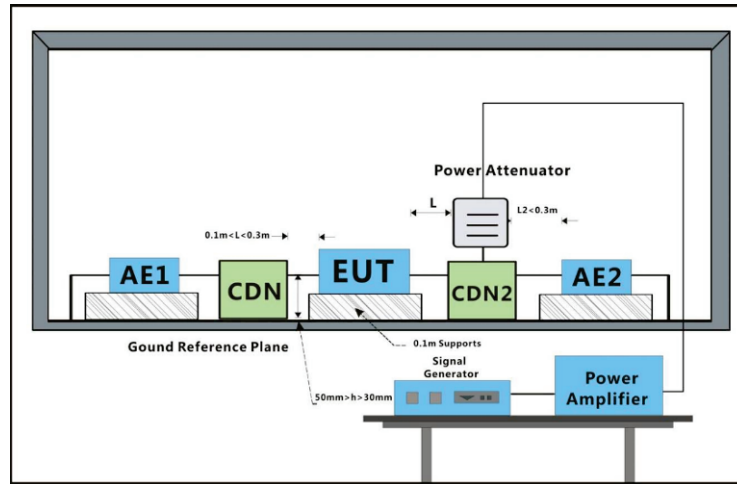
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### 7.6 Conducted Immunity at AC Mains Power Port (150kHz-80MHz)

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-6:2014

#### 7.6.1 Test Setup Diagram



#### 7.6.2 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C

Humidity: 51.5 % RH

Atmospheric Pressure: 1020 mbar

#### 7.6.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Main package + PV in input 1200W + sub-package + grid-connected port output 1200W.
Final test	11	Main package + sub-package + grid-connected port output 1200W.
Final test	17	Main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	18	PV IN 1200W main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
Final test	20	PV IN 400W + main package + sub-package + micro-inverter output 800W
Final test	21	PV input 1200W + sub-package + off-grid with load 1200W.
Final test	22	Main package + sub-package + off-grid with load 1200W.
Final test	23	PV IN 1200W + main package + sub-package.
Final test	25	PV IN 1200W + main package + sub-package + micro-inverter output 800W + grid-connected port output.





### 7.6.4 Test Condition and Results:

Performance Criterion:	A
Frequency Range:	0.15MHz to 80MHz
Modulation:	80%, 1kHz Amplitude Modulation
Step Size	1%

Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	3(0.15MHz-80MHz)	CDN	3s	A
A: No degradation in the performance of the EUT was observed				



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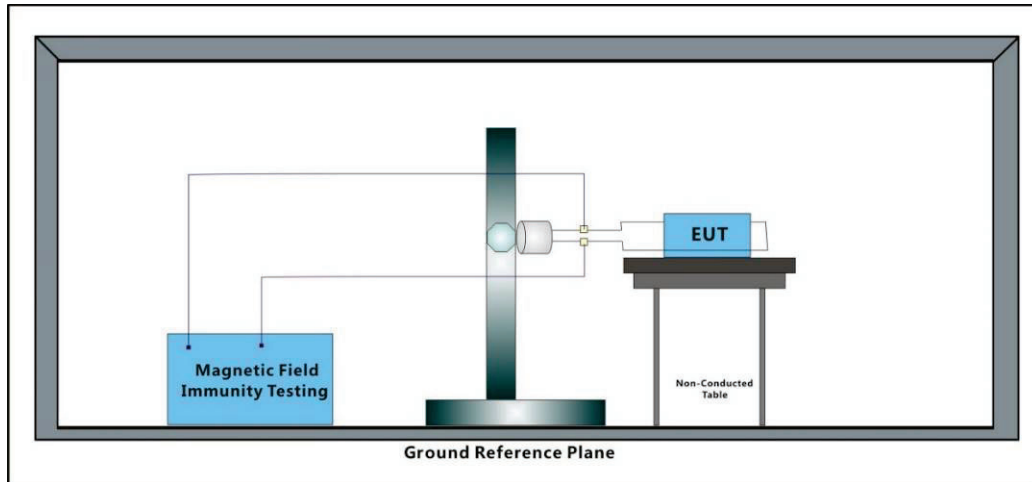
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### 7.7 Power Frequency Magnetic Field

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-8:2010

#### 7.7.1 Test Setup Diagram



#### 7.7.2 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C

Humidity: 51.5 % RH

Atmospheric Pressure: 1020 mbar

#### 7.7.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Main package + PV in input 1200W + sub-package + grid-connected port output 1200W.
Final test	11	Main package + sub-package + grid-connected port output 1200W.
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Final test	18	PV IN 1200W main package + sub-package + micro-inverter output 800W + grid-connected port output 2000W.
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Final test	22	Main package + sub-package + off-grid with load 1200W.
Final test	23	PV IN 1200W + main package + sub-package.
Final test	25	PV IN 1200W + main package + sub-package + micro-inverter output 800W + grid-connected port output.



### 7.7.4 Test Condition and Results:

Performance Criterion: A

Frequency	Level (A/m)	Axial	Magnetic Field Type	Result / Observations
50 Hz	3	X	Continue	A
50 Hz	3	Y	Continue	A
50 Hz	3	Z	Continue	A

A: No degradation in the performance of the EUT was observed



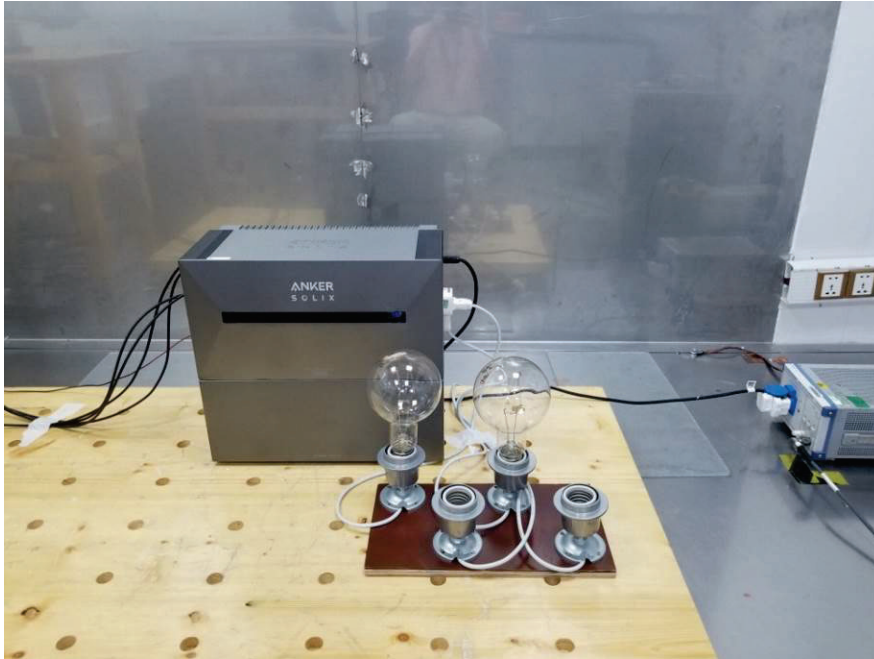
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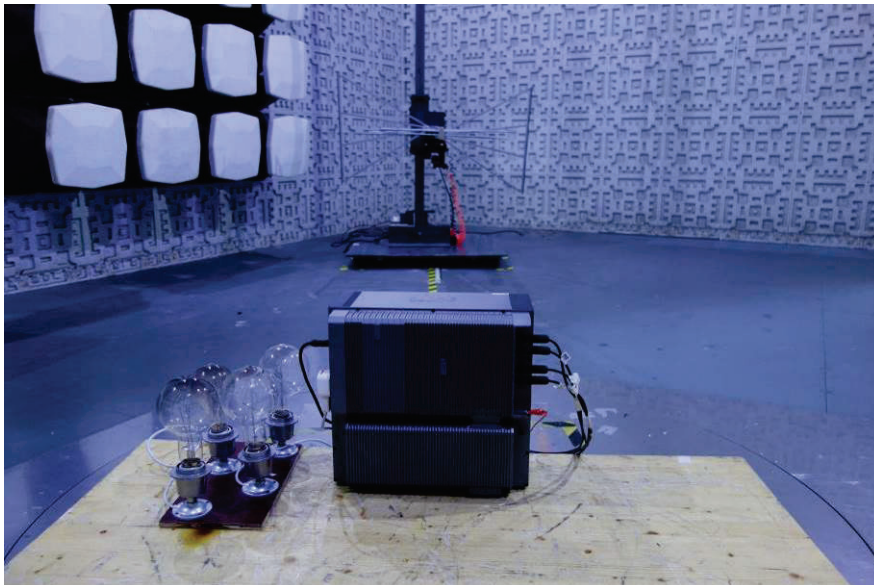


## 8 Test Setup Photo

### Conducted Emissions at AC Mains Power Port (150kHz-30MHz)



### Radiated Emissions (30MHz-1GHz)

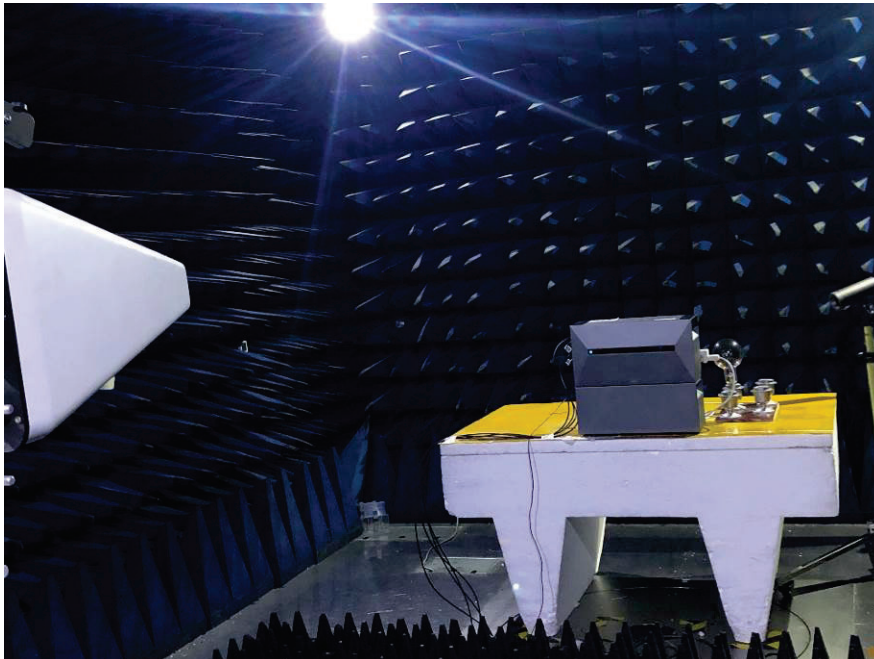




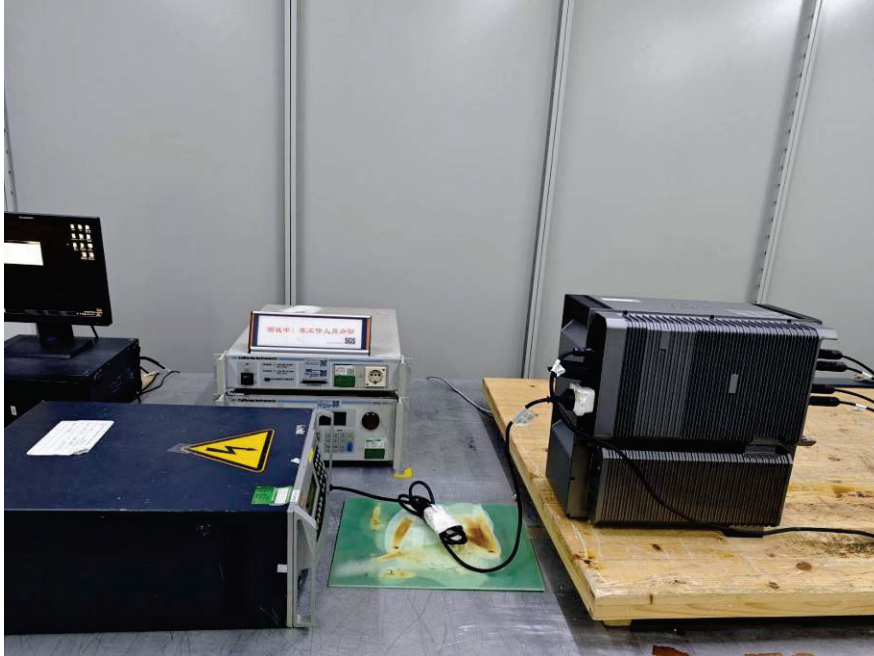
### Electrostatic Discharge



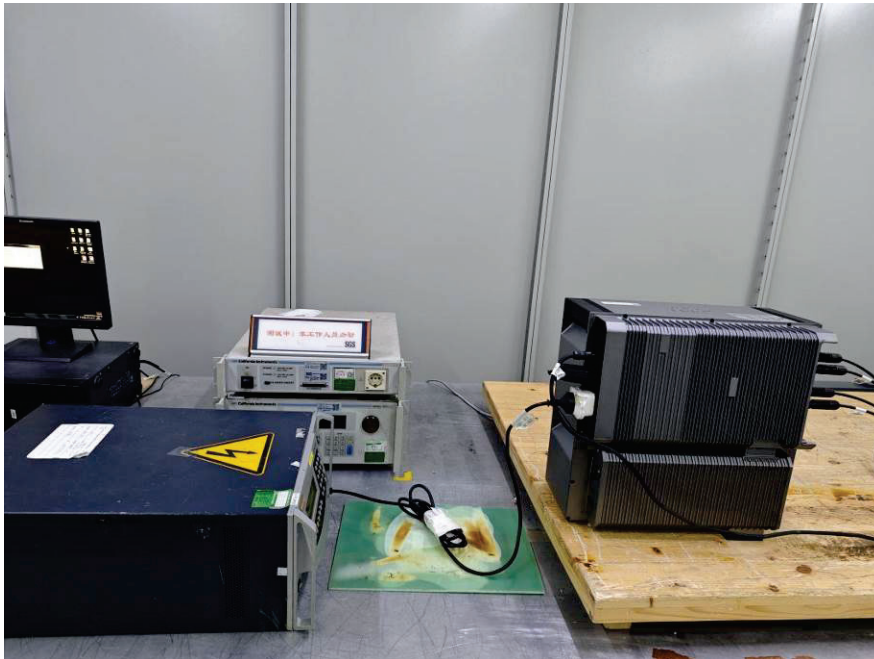
### Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)



### Electrical Fast Transients Burst at AC Mains Power Port



### Surge at AC Mains Power Port



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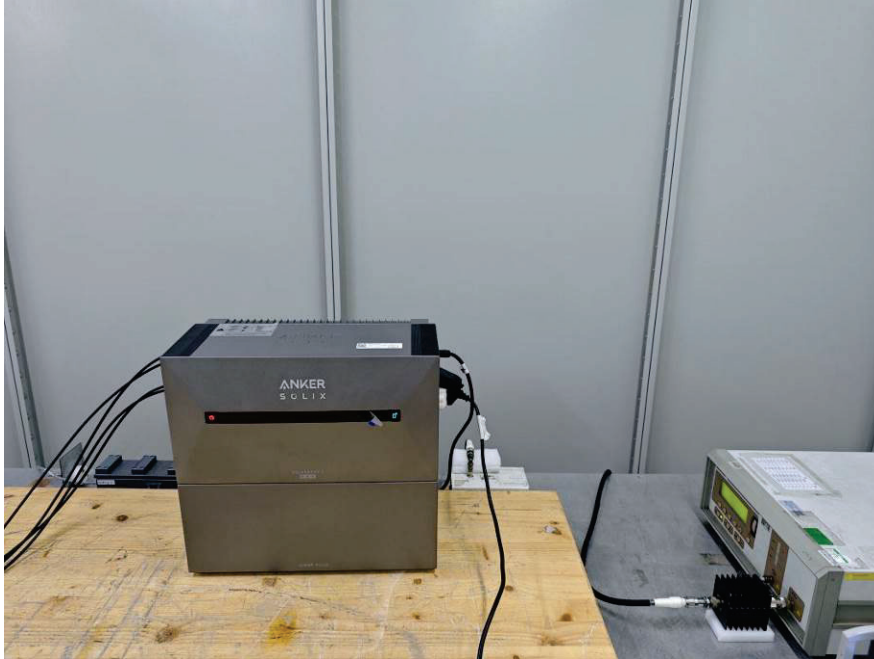
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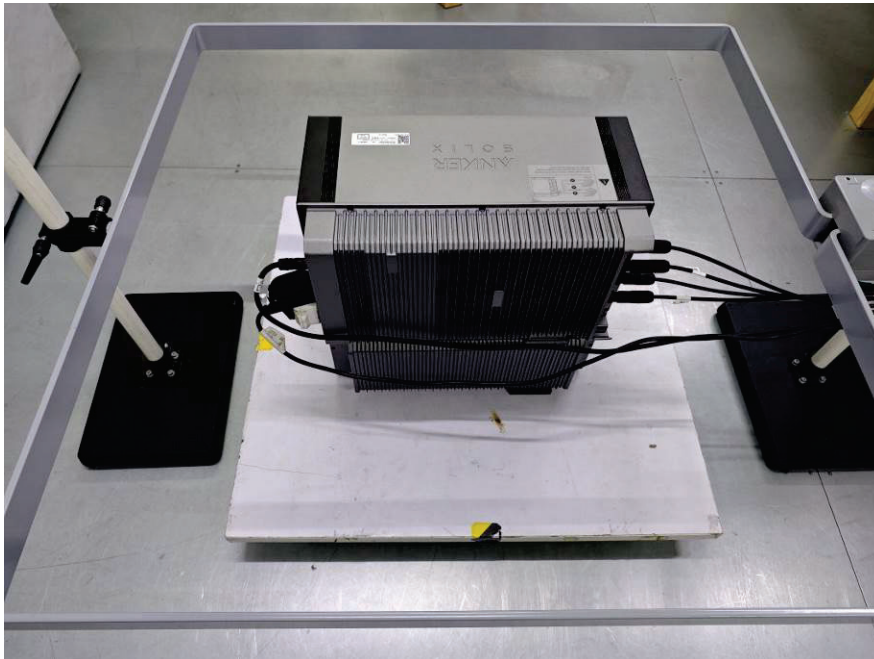
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### Conducted Immunity at AC Mains Power Port (150kHz-80MHz)



### Power Frequency Magnetic Field



### 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2409003439AT

- End of the Report -

