



EMC TEST REPORT

Applicant : Guangzhou Felicity Solar Technology Co.,Ltd.
Address : (Airport Baiyun)No.2, 4, 6, 8, 10 and 12 Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, Guangdong, P. R. China

Manufacturer : Guangzhou Felicity Solar Technology Co.,Ltd.
Address : (Airport Baiyun)No.2, 4, 6, 8, 10 and 12 Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, Guangdong, P. R. China

Factory : Guangzhou Felicity Solar Technology Co.,Ltd.
Address : (Airport Baiyun)No.2, 4, 6, 8, 10 and 12 Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, Guangdong, P. R. China

Product Name : Hybrid Inverter

Brand Name : 

Model No. : IVGM6KLP1G2, IVGM3KLP1G2-24, IVGM3KLP1G2, IVGM3K6LP1G2, IVGM5KLP1G2, IVGM4K6LP1G2

Standard : EN IEC 61000-6-1:2019 EN 62920:2017+A11:2020+A1:2021
EN IEC 61000-6-2:2019 IEC 62920:2017+A1:2021
EN IEC 61000-6-3:2021 ABNT NBR IEC/CISPR11:2020
EN IEC 61000-6-4:2019 CISPR11:2015+A1:2016+A2:2019

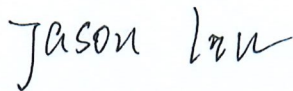
Date of Receiving Samples : March 31, 2026

Date of Test : April 09, 2026 to May 08, 2026

Date of Report : May 15, 2026

This Test Report is Issued Under the Authority of :

Prepared by



Jason Liu / Engineer

Approved & Authorized Signer



Han Song / Authorized Signatory

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Shenzhen Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.

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1.SUMMARY OF TEST RESULTS

The E.U.T. has been tested according to the following specifications:

EMISSION			
Standard	Test Type	Result	Remarks
EN IEC 61000-6-3:2021 EN IEC 61000-6-4:2019 EN 62920:2017+A11: 2020+A1:2021	Conducted Emission Measurement	PASS	Meets the requirements.
CISPR11:2015+A1:2016 +A2:2019 ABNT NBR IEC/CISPR11:2020 *	Radiated Emission Measurement	PASS	Meets the requirements.
IEC 61000-3-12:2011	Harmonic Current Emission Measurement	PASS	Meets the requirements
IEC 61000-3-11:2017	Voltage Fluctuations & Flicker Measurement	PASS	Meets the requirements.

IMMUNITY (EN IEC 61000-6-2:2019/EN 62920:2017+A11:2020+A1:2021)			
Basic Standard	Test Type	Result	Results (Performance Criterion)
IEC 61000-4-2:2008	Electrostatic Discharge Test	PASS	A
IEC 61000-4-3:2006+ A1:2007+ A2:2010	Radio-Frequency Electromagnetic Field Test	PASS	A
IEC 61000-4-4:2012	Fast Transients Test	PASS	A
IEC 61000-4-5:2014	Surge Test	PASS	A
IEC 61000-4-6:2013	Radio-Frequency Common Mode Test	PASS	A
IEC 61000-4-8:2009	Power-Frequency Magnetic Field Test	PASS	A
IEC 61000-4-34: 2005+A1:2009	Voltage Dips and Interruptions Test	PASS	B

Note: “*” Means that the standard is out of the CNAS scope of NTC.

2.TEST UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Test item	Uncertainty
Conducted Emission Measurement (0.15-30MHz)	$\pm 2.7\text{dB}$
Radiated Emission Measurement (30-1000MHz)	$\pm 4.4\text{dB}$
Note: As U_{lab} in all applicable tests listed above are less than U_{cispr} according to CISPR 16-4-2, compliance is deemed to occur if no measured disturbance exceeds the disturbance limit; non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.	

3.GENERAL INFORMATION

3.1.Product Information

Product Name:	Hybrid Inverter
Model No.:	IVGM6KLP1G2, IVGM3KLP1G2-24, IVGM3KLP1G2, IVGM3K6LP1G2, IVGM5KLP1G2, IVGM4K6LP1G2
Description of model difference:	<p>1. These models have the same circuitry, PCB layout and physical construction, the difference are the product model and the power changed by the software. The same power only differs in the naming and battery parameters.</p> <p>2. According to the model differences. We tested all items at IVGM6KLP1G2.</p>
Classification of Equipment:	Such equipment would fulfil the tighter emission requirements of the residential environment as well as the severe immunity requirements of the industrial environment.
Typical arrangement:	Tabletop or Wall-Mounted
Highest Internal Frequency:	Below 108MHz (Except WIFI) (Highest internal frequency below 108MHz, radiation test frequency range 30MHz-1000MHz)
Rating:	<p>IVGM6KLP1G2 Product Type: Hybrid Inverter Overvoltage-category: DCII; ACIII Ambient Temperature: -25℃~60℃>45℃ Derating</p> <p>Battery Battery Voltage Range: 40Vd.c.-60Vd.c. Max. Charging and Discharging Current: 135Ad.c/135Ad.c. Max. Charging and Discharging Power: 6000W</p> <p>PV Max. PV Input Voltage: 500Vd.c. Min. PV Input Voltage: 90Vd.c. MPPT Input Range: 150Vd.c. ~425Vd.c. Max. Input Current: 18Ad.c./18Ad.c. Max. Shorted Current: 27Ad.c./27Ad.c. Max. PV Input Power: 9600W</p> <p>On-Grid Mode AC Output Voltage: 220Va.c./230Va.c. AC Output Frequency: 50/60Hz AC Output Rated Current: 27.3Aa.c./26.1Aa.c. Max. Continuous AC Passthrough: 40Aa.c. AC Output Rated Active Power: 6000W Max. Apparent Output Power: 6600VA</p>

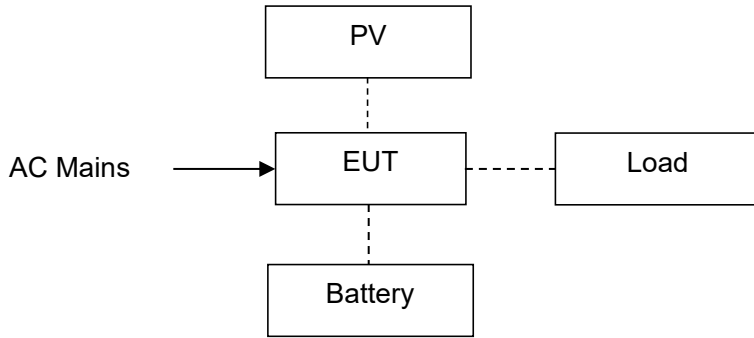
	AC Output Power Factor: 0.8 Leading To 0.8Lagging Off-Grid Mode AC Output Voltage: 220Va.c./230Va.c AC Output Frequency: 50/60Hz AC Output Rated Current: 27.3Aa.c./26.1Aa.c. Max. AC Output Current: 30Aa.c./28.7Aa.c. AC Output Rated Active Power: 6000W Max. AC Output Apparent Power: 6600VA Non-isolated topology, IP65, Class I protective class
Sample No.:	SZNTC2603231EV00-001
Remark:	All the information above is provided by the manufacturer. For more detailed features of the EUT, please refer to the user manual.

3.2.Description of Support Device

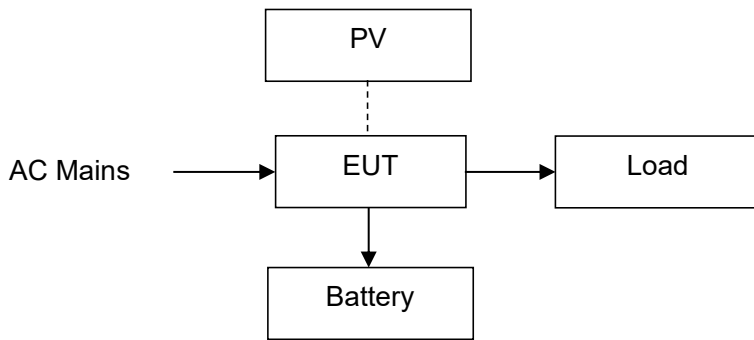
No.	Equipment	Manufacturer	M/N	Description	Remark
1.	Incandescent lamp load	NTC	---	---	Provided by the lab.
2.	Photovoltaic simulator source	ITECH	IT 6018C-1500-40	---	Provided by the lab.
3.	Lead acid battery	Felicitysolar	G12V 200AH*4	---	Provided by the lab.
4.	Lead acid battery	VISION GROUP	G12V 200AH*4	---	Provided by the lab.
5.	AC input cable	---	---	The test uses a 1P/N/PE power cable of 1.0m length without magnetic ring and unshielded.	Provided by the lab.
6.	AC output cable	---	---	The test uses a 1P/N/PE power cable of 1.0m length without magnetic ring and unshielded.	Provided by the lab.
7.	Battery cable	---	---	The test uses a power cable of 1.0m length without magnetic ring and unshielded.	Provided by the lab.
8.	PV cable	---	---	The test uses a power cable of 3.0m length without magnetic ring and unshielded.	Provided by the lab.

3.3. Block Diagram of Test Setup

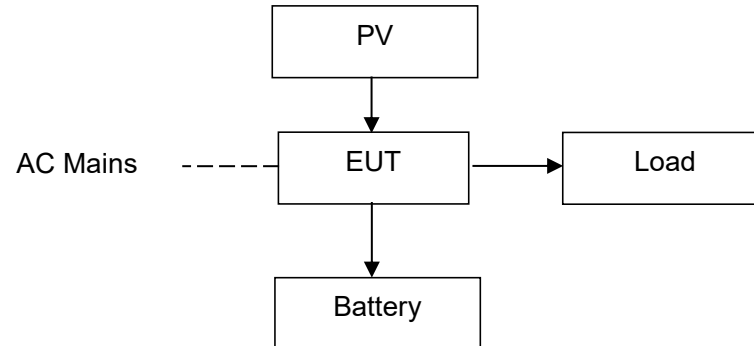
Mode 1: Standby Mode



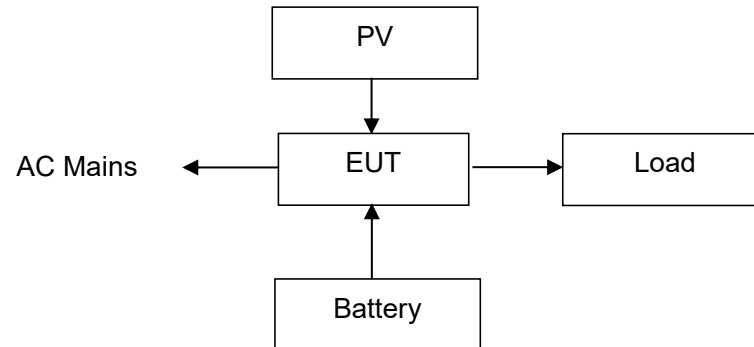
Mode 2: AC Charger Mode (AC Input + Battery+ Load)



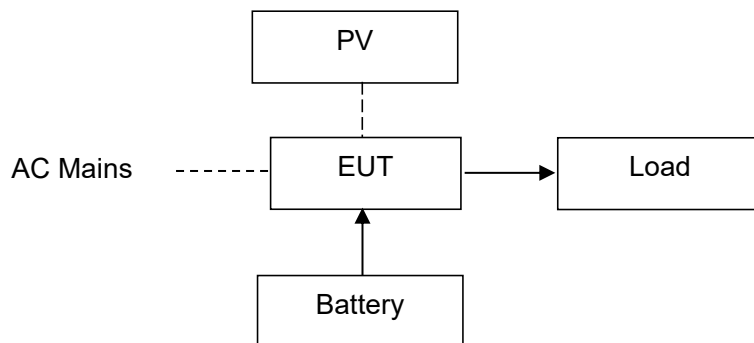
Mode 3: Solar Charger Mode (PV+ Battery+ Load)



Mode 4: Grid Mode (Grid+ PV+ Battery+ Load)



Mode 5: Inverter Mode(Battery+ Load)



Remark: The dashed line indicates a power-off connection.

3.4. Test Mode

No.	Test Mode	Remark
1.	Standby Mode	The PCE is connected to the AC mains and is energized but does not generate or feed power into the AC mains or electrical energy storage devices. The voltage level at the DC power ports need not to be within the rated operation range.
2.	AC Charger Mode (AC Input + Battery+ Load)	The mains input charges the battery, and the AC output connects to an analog load.
3.	Solar Charger Mode (PV+ Battery+Load)	The PV input charges the battery, and the AC output connects to an analog load.
4.	Grid Mode (Grid+ PV+ Battery+ Load)	PV and the battery are fed into the AC grid, and the AC output is connected to the analog load.
5.	Inverter Mode (Battery+ Load)	Battery inverter status, AC output connected to analog load.

3.5. Test Conditions

No.	Test Item	Test Mode	Test Voltage	Tested by	Remarks
1.	Conducted Emission - AC Power Input Port	1-5	AC 230V 50Hz PV 370V, DC 48V	Taoshizheng	See note 1&4
2.	Conducted Emission - DC Power Output Port	1-5	AC 230V 50Hz PV 370V, DC 48V	Taoshizheng	See note 1&4
3.	Conducted Disturbances - Wired Network Port	---	---	---	---
4.	Radiated Emission	1-5	AC 230V 50Hz PV 370V, DC 48V	Linxiaojian	See note 1&4
5.	Harmonic Current Emission	2, 4	AC 230V 50Hz PV 370V, DC 48V	Lixinglin	See note 1&3
6.	Voltage Fluctuations & Flicker	2, 4	AC 230V 50Hz PV 370V, DC 48V	Lixinglin	See note 1&3
7.	Electrostatic Discharges (ESD)	1-5	AC 230V 50Hz PV 370V, DC 48V	Lixinglin	See note 2&3&4
8.	Radio-Frequency Electromagnetic Field	2-5	AC 230V 50Hz PV 370V, DC 48V	Jones	See note 1&3&4
9.	Fast Transients	2-5	AC 230V 50Hz PV 370V, DC 48V	Lixinglin	See note 1&3&4
10.	Surges	1-5	AC 230V 50Hz PV 370V, DC 48V	Lixinglin	See note 1&3&4
11.	Radio-Frequency Common Mode	2-5	AC 230V 50Hz PV 370V, DC 48V	Jones	See note 1&3&4
12.	Power Frequency Magnetic Field	2-5	AC 230V 50Hz PV 370V, DC 48V	Lixinglin	See note 1&4
13.	Voltage Dips and Interruptions	2, 4	AC 230V 50Hz PV 370V, DC 48V	Lixinglin	See note 1&3&4

Note:

1. The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35°C, 30~70%, 86~106kPa.
2. The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35°C, 30~60%, 86~106kPa.
3. Only the worst data were recorded on the report.
4. Only the most stringent limits were recorded on the report.
(This product is suitable for the EN IEC 61000-6-3&EN IEC 61000-6-1, also suitable for EN 62920 and CISPR11, we use most stringent standards for testing.)

3.6.Sample Calculations

Conducted Emission						
Freq. (MHz)	Factor (dB/m)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector
0.2260	11.56	12.50	24.06	66.00	-41.94	AVG
Where, Freq. = Emission frequency in MHz Reading = Spectrum Analyzer/Receiver Reading Factor = Insertion loss of LISN + Cable Loss Level = Reading + Factor Limit = Limit stated in standard Margin = Level - Limit Detector = Reading for Quasi-Peak / Average / Peak						

Radiated Emission						
Freq. (MHz)	Factor (dB/m)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
75.9773	-17.06	59.36	42.30	49.00	-6.70	QP
Where, Freq. = Emission frequency in MHz Reading = Spectrum Analyzer/Receiver Reading Factor = Antenna Factor + Cable Loss - Pre-amplifier Level = Reading + Factor Limit = Limit stated in standard Margin = Level - Limit Detector = Reading for Quasi-Peak / Average / Peak						

3.7. Test Facility

Test Site:	Shenzhen Nore Testing Center Co., Ltd.
Accreditations and Authorizations:	The Laboratory is accredited by CNAS (ILAC Member) according to ISO/IEC 17025:2017 with registration number L11038 and valid until May 17, 2030.
Test Site Location:	South, No. 1, Building 10, Maqueling Industrial Zone, Nanshan Shenzhen, Guangdong, 518057, China
Subcontractor:	Dongguan Nore Testing Center Co.,Ltd.
Test Site Location:	Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng District, Dongguan City, Guangdong Province, China
Test Items:	Radio-Frequency Electromagnetic Field Radio-Frequency Common Mode
Remark:	The subcontractor is CNAS qualified.

3.8. Abnormalities from Standard Conditions

None.

4.MEASURING DEVICES AND TEST EQUIPMENT

4.1.For Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	Test Receiver	Rohde & Schwarz	ESCI-3	100120	Mar. 20, 2026	1 Year
<input type="checkbox"/>	L.I.S.N	Rohde & Schwarz	ESH3-Z5	100157	Mar. 20, 2026	1 Year
<input checked="" type="checkbox"/>	L.I.S.N	Schwarzbeck	NNLK8129	00409	Mar. 20, 2026	1 Year
<input checked="" type="checkbox"/>	L.I.S.N	Schwarzbeck	PVDC 8301	8301-0083	Mar. 20, 2026	1 Year
<input checked="" type="checkbox"/>	Pulse Limiter	EMTRACE	PL00903	2404	Mar. 20, 2026	1 Year
<input checked="" type="checkbox"/>	Test Software	EZ	EZ-EMC (Ver. CT3A11)	N/A	N/A	N/A

4.2.For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	Test Receiver	Rohde & Schwarz	ESPI-7	100006	Mar. 20, 2026	1 Year
<input type="checkbox"/>	Loop Antenna	ZHINAN	ZN30900C	16036	Mar. 22, 2026	2 Year
<input checked="" type="checkbox"/>	Composite logarithmic antenna	Schwarzbeck	VULB 9163	1633	Mar. 22, 2026	2 Year
<input type="checkbox"/>	Horn Antenna	Schwarzbeck	BBHA 9120 D	01884	Mar. 22, 2026	2 Year
<input checked="" type="checkbox"/>	Power Amplifier	HP	HP 8447D	2443A04646	Mar. 20, 2026	1 Year
<input type="checkbox"/>	Power Amplifier	KSYET	PAM-118	443007	Mar. 20, 2026	1 Year
<input checked="" type="checkbox"/>	Test Software	EZ	EZ-EMC (Ver. CT3A11)	N/A	N/A	N/A

4.3.For Harmonic Current/ Flicker Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	Power Analyzer	ZLG	PA6000H	N/A	Aug. 22, 2025	1 Year
<input checked="" type="checkbox"/>	Current probe	ZLG	ZCS200	N/A	Aug. 22, 2025	1 Year
<input checked="" type="checkbox"/>	Flicker Impedance	YANBIXIN	YX91L1-75A-T RD2110008F	N/A	Mar. 20, 2026	1 Year

4.4.For Electrostatic Discharge Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	ESD Tester	HAEFELY	ONYX16	1811981	Mar. 24, 2026	1 Year

4.5.For Radio-Frequency Electromagnetic Field Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	Signal Generator	Agilent	N5181A	MY47070160	Aug. 23, 2025	1 Year
<input checked="" type="checkbox"/>	RF Switch	SKET	N/A	N/A	N/A	N/A
<input checked="" type="checkbox"/>	Power Amplifier	SKET	HAP801000M_250W	201804008	N/A	N/A
<input checked="" type="checkbox"/>	Power Amplifier	SKET	HAP0103G_75W	201804009	N/A	N/A
<input checked="" type="checkbox"/>	Power Amplifier	SKET	HAP0306G_50W	201804010	N/A	N/A
<input checked="" type="checkbox"/>	Power Meter	Agilent	E4419B	GB40201469	Aug. 20, 2025	1 Year
<input checked="" type="checkbox"/>	Power Sensor	Agilent	E9304A	MY41498919	Aug. 20, 2025	1 Year
<input checked="" type="checkbox"/>	Power Sensor	Agilent	E9300A	US39211259	Aug. 20, 2025	1 Year
<input checked="" type="checkbox"/>	E-Field Probe	Narda	EP-601	611WX70729	Aug. 19, 2025	1 Year
<input checked="" type="checkbox"/>	Antenna	Schwarzbeck	STLP 9129	00071	Aug. 28, 2025	3 Year
<input checked="" type="checkbox"/>	Audio Analyzer	Rohde & Schwarz	UPV	100894	Aug. 23, 2025	1 Year
<input checked="" type="checkbox"/>	Chamber	YIHENG	7*5*3.5m	N/A	Aug. 26, 2025	3 Year
<input checked="" type="checkbox"/>	Test Software	SKET	EMC-S, V2.1.4.27	N/A	N/A	N/A

4.6.For Fast transients Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	EFT Generator	HTEC	HEFT	203601	Mar. 20, 2026	1 Year
<input checked="" type="checkbox"/>	CDN	HTEC	HCOUPLER 60E	204301	Mar. 20, 2026	1 Year
<input type="checkbox"/>	Coupling Clamp	HAEFELY	/	/	Mar. 28, 2026	1Year

4.7.For Surge Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	Surge Generator	HTEC	HCWG	205301	Mar. 28, 2026	1 Year
<input checked="" type="checkbox"/>	CDN	HTEC	HCOUPLER 60S	204201	Mar. 28, 2026	1 Year
<input type="checkbox"/>	Network CDN	EEST	ES-CDN-508	N/A	Mar. 28, 2026	1 Year

4.8.For Power-Frequency Magnetic Field Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	Magnetic Field Tester	N/A	MS-8000	N/A	Mar. 20, 2026	1 Year

4.9.For Radio-Frequency Common Mode Test

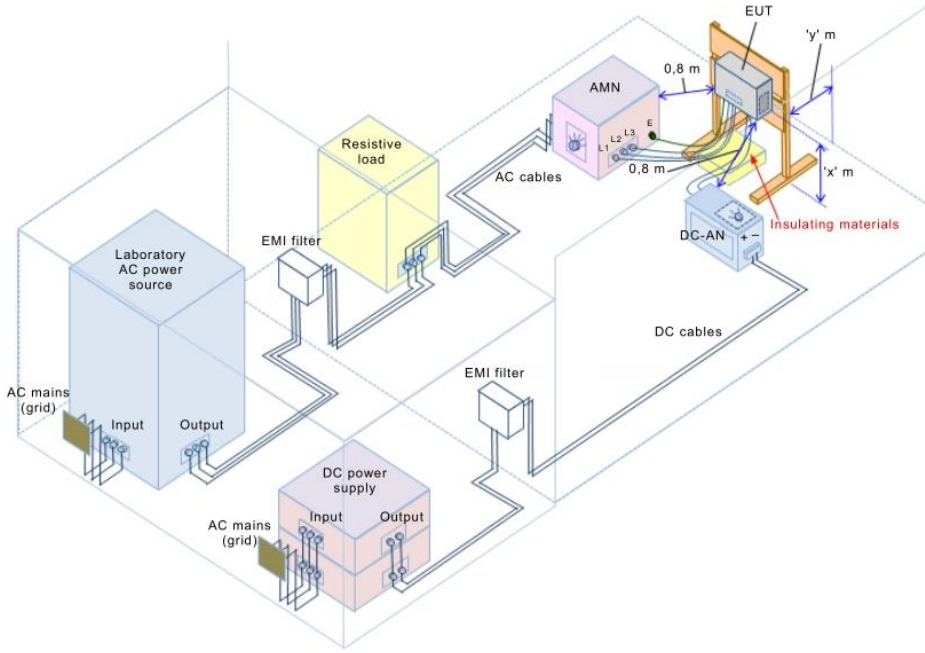
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	Signal generator	IFR	2023A	2023051280	Aug. 22, 2025	1 Year
<input checked="" type="checkbox"/>	Power Amplifier	SCHAFFNER	CBA9425	1022	N/A	1 Year
<input checked="" type="checkbox"/>	6dB 50Watt Attenuator	SCHAFFNER	ATN6025	N/A	Aug. 22, 2025	1 Year
<input checked="" type="checkbox"/>	CDN	Lioncel	CDN-M3-16	0170703	Aug. 21, 2025	1 Year
<input checked="" type="checkbox"/>	CDN	Lioncel	CDN-M2-16	0180501	Aug. 21, 2025	1 Year
<input checked="" type="checkbox"/>	CDN	CDSI	ADN-M5	8105001	Aug. 21, 2025	1 Year
<input checked="" type="checkbox"/>	CDN	Lioncel	CDN-M1-16	0220904	Aug. 21, 2025	1 Year
<input checked="" type="checkbox"/>	CDN	3CTest	CDN M5-75	ES064005225002	Aug. 22, 2025	1 Year
<input checked="" type="checkbox"/>	CDN	3CTest	CDN M2-100	ES064004925002	Aug. 22, 2025	1 Year
<input checked="" type="checkbox"/>	EM Clamp	CDSI	EMCL-22	8192007	Aug. 23, 2025	1 Year
<input checked="" type="checkbox"/>	Directional Coupler	SCHAFFNER	255	19184	Aug. 21, 2025	1 Year
<input checked="" type="checkbox"/>	Audio Analyzer	Rohde & Schwarz	UPV	100894	Aug. 23, 2025	1 Year
<input checked="" type="checkbox"/>	Test Software	EZ	EMC-CS, B-3.1	N/A	N/A	N/A

4.10.For Voltage Dips and Interruptions Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
<input checked="" type="checkbox"/>	Analog power supply	Ainuo	ANBGS060TL	2209BGS021	Mar. 28, 2026	1 Year

5.CONDUCTED EMISSION MEASUREMENT

5.1.Block Diagram of Test Setup



5.2.Limit of Conducted Emission Measurement

Disturbance voltage limits at the AC mains power port for class A PCE measured on a test site

Frequency range MHz	<input type="checkbox"/> Rated power of ≤ 20 kVA		<input type="checkbox"/> Rated power of > 20 kVA ^a		<input type="checkbox"/> High power electronic systems and equipment, Rated power of > 75 kVA	
	Quasi-peak dB (μ V)	Average dB (μ V)	Quasi-peak dB (μ V)	Average dB (μ V)	Quasi-peak dB (μ V)	Average dB (μ V)
0,15 to 0,5	79	66	100	90	130	120
0,50 to 5	73	60	86	76	125	115
5 to 30	73	60	90 to 73 ^a	80 to 60 ^a	115	105

a: Decreasing linearly with logarithm of frequency to
 At the transition frequency, the more stringent limit shall apply.
 For class A PCE intended to be connected solely to isolated neutral or high impedance earthed (IT) industrial power distribution networks (see IEC 60364-1), the limits for equipment with a rated power > 75 kVA can be applied.
 Limits only apply to low voltage AC mains power ports.
 Selection of the appropriate set of limits shall be based on the rated AC power stated by the manufacturer.

Disturbance voltage limits at the AC mains power port for class B PCE measured on a test site

Frequency range MHz	Quasi-peak dB(μV)	Average dB(μV)
0,15 to 0,50	66 to 56 ^a	56 to 46 ^a
0,50 to 5,0	56	46
5,0 to 30,0	60	50

a: Decreasing linearly with logarithm of frequency to
At the transition frequency, the more stringent limit shall apply.

Disturbance limits at the DC power port for class A PCE measured on a test site

Frequency range MHz	<input type="checkbox"/> Rated power of ≤ 20 kVA ^a		<input type="checkbox"/> Rated power of > 20 kVA and ≤ 75 kVA ^{a, b}		<input type="checkbox"/> Rated power of > 75 kVA ^{a, b}	
	Voltage limits		Voltage limits		Voltage limits	
	Quasi-peak dB (μV)	Average dB(μV)	Quasi-peak dB(μV)	Average dB(μV)	Quasi-peak dB (μV)	Average dB(μV)
0,15 to 5	97 to 89	84 to 76	116 to 106	106 to 96	132 to 122	122 to 112
5 to 30	89	76	106 to 89	96 to 76	122 to 105	112 to 92

In certain frequency ranges, the limits in this table decrease linearly with logarithm of frequency.
Selection of the appropriate set of limits shall be based on the rated AC power stated by the manufacturer.

Disturbance limits at the DC power port for class B PCE measured on a test site

Frequency range MHz	Quasi-peak dB(μV)	Average dB(μV)
0,15 to 0,50	84 to 74 ^a	74 to 64 ^a
0,5 to 30	74	64

a: Decreasing linearly with logarithm of frequency to

Limits of conducted common mode (asymmetric mode) disturbance at the wired port for class A PCE

Frequency range MHz	<input type="checkbox"/> Voltage limit		<input type="checkbox"/> Current limit	
	Quasi-peak dB(μV)	Average dB(μV)	Quasi-peak dB(μA)	Average dB(μA)
0,15 to 0,50	97 ^a to 87	84 ^a to 74	53 ^a to 43	40 ^a to 30
0,5 to 30	87	74	43	30

a: Decreasing linearly with logarithm of frequency to

Limits of conducted common mode (asymmetric mode) disturbance at the wired port for class B PCE

Frequency range MHz	<input type="checkbox"/> Voltage limit		<input type="checkbox"/> Current limit	
	Quasi-peak dB(μV)	Average dB(μV)	Quasi-peak dB(μA)	Average dB(μA)
0,15 to 0,50	84 ^a to 74	74 ^a to 64	40 ^a to 30	30 ^a to 20
0,5 to 30	74	64	30	20

a: Decreasing linearly with logarithm of frequency to

5.3.Test Procedure

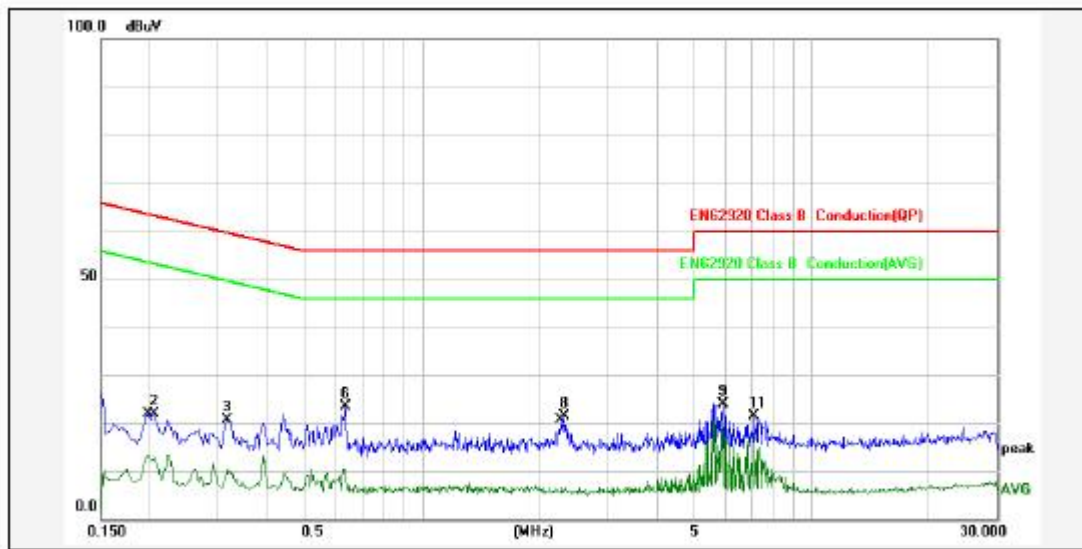
- a. The EUT was placed on a wooden table 0.8m height from the metal ground plan and 0.4m from the conducting wall of the shielding room and it was kept at 0.8m from any other grounded conducting surface.
- b. Configure the EUT and support devices as per section 5.1.
- c. All cables and support devices were positioned as per EN 62920.
- d. Connect mains power port of the EUT to a line impedance stabilization network (LISN). Wired network port to Asymmetric Artificial Network (AAN).
- e. Connect all support devices to the other LISN and AAN, if needed.
- f. Turn on the EUT and all support devices, and make it run stably.
- g. Set the detector and measurement bandwidth of test-receiver system as per EN 62920.
- h. Scan the frequency range from 150KHz to 30MHz at each side of AC line for conducted interference checking
- i. Repeat the above scans in each mode and record the test data.

5.4.Test Results

PASS.

Please refer to the following pages.

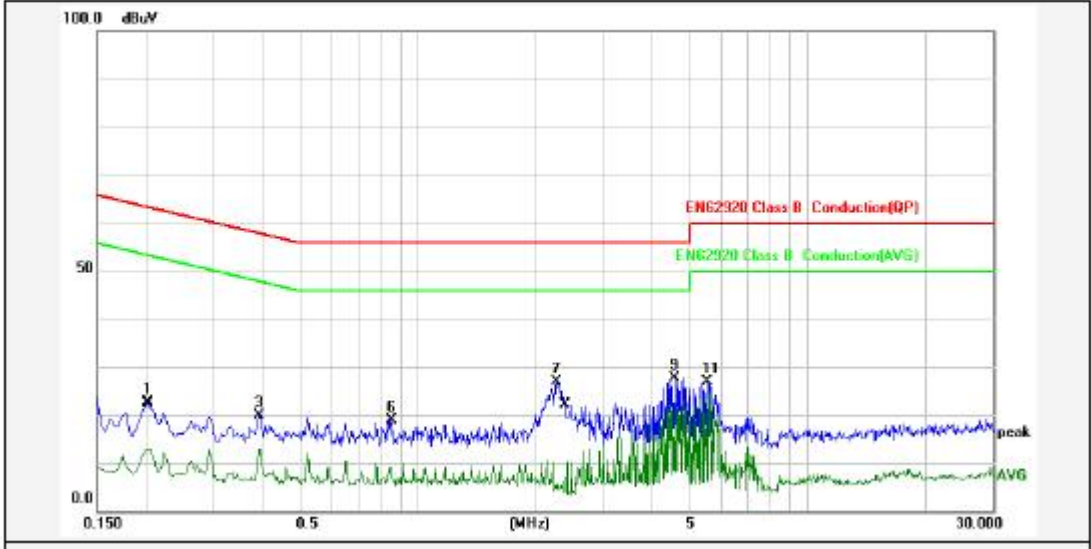
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz
Test Mode:	1	Phase:	Neutral
Test Date:	2026-05-08	Test Port:	AC Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1980	10.10	3.18	13.28	53.69	-40.41	AVG	P	
2	0.2059	10.10	11.84	21.94	63.37	-41.43	peak	P	
3	0.3180	10.11	10.44	20.55	59.78	-39.21	peak	P	
4	0.3180	10.11	0.00	10.11	49.78	-39.65	AVG	P	
5	0.6300	10.10	0.27	10.37	46.00	-35.63	AVG	P	
6	0.6340	10.10	13.30	23.40	56.00	-32.60	peak	P	
7	2.2780	10.29	-3.55	6.74	46.00	-39.26	AVG	P	
8	2.3140	10.30	11.04	21.34	56.00	-34.66	peak	P	
9	5.9339	10.51	13.43	23.94	60.00	-36.06	peak	P	
10	5.9339	10.51	10.57	21.08	50.00	-28.92	AVG	P	
11	7.1699	10.58	10.83	21.41	60.00	-38.59	peak	P	
12	7.1699	10.58	7.40	17.98	50.00	-32.02	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

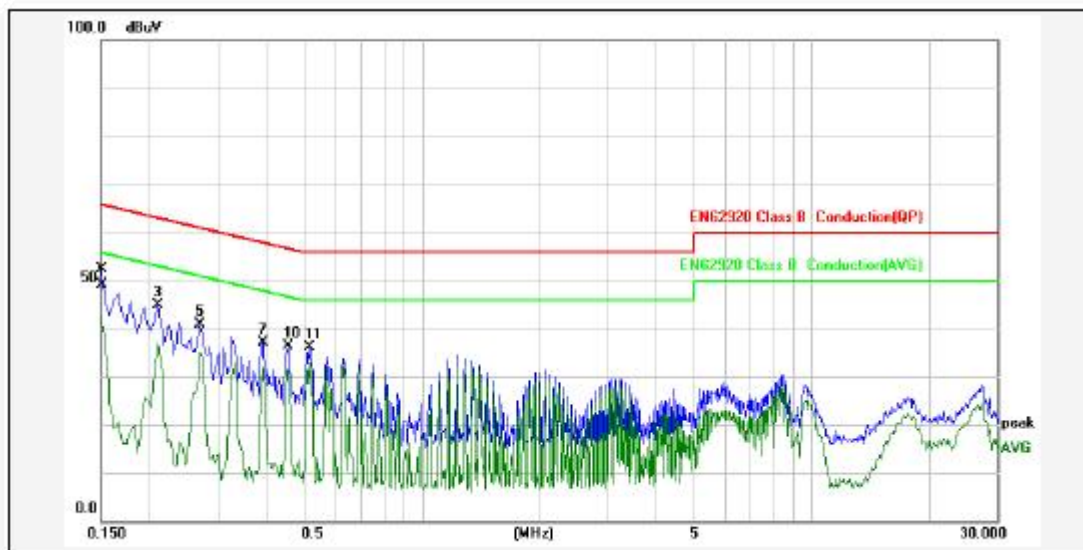
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz
Test Mode:	1	Phase:	Line 1
Test Date:	2026-05-08	Test Port:	AC Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2020	10.10	12.57	22.67	63.52	-40.85	peak	P	
2	0.2058	10.10	2.78	12.88	53.37	-40.49	AVG	P	
3	0.3899	10.11	9.80	19.91	58.06	-38.15	peak	P	
4	0.3899	10.11	2.78	12.89	48.06	-35.17	AVG	P	
5	0.8498	10.16	-1.03	9.13	46.00	-36.87	AVG	P	
6	0.8538	10.16	8.73	18.89	56.00	-37.11	peak	P	
7	2.2820	10.29	16.59	26.88	56.00	-29.12	peak	P	
8	2.4140	10.30	-0.30	10.00	46.00	-36.00	AVG	P	
9	4.5658	10.43	17.17	27.60	56.00	-28.40	peak	P	
10	4.5658	10.43	11.95	22.38	46.00	-23.62	AVG	P	
11	5.5419	10.49	16.47	26.96	60.00	-33.04	peak	P	
12	5.6097	10.49	14.17	24.66	50.00	-25.34	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

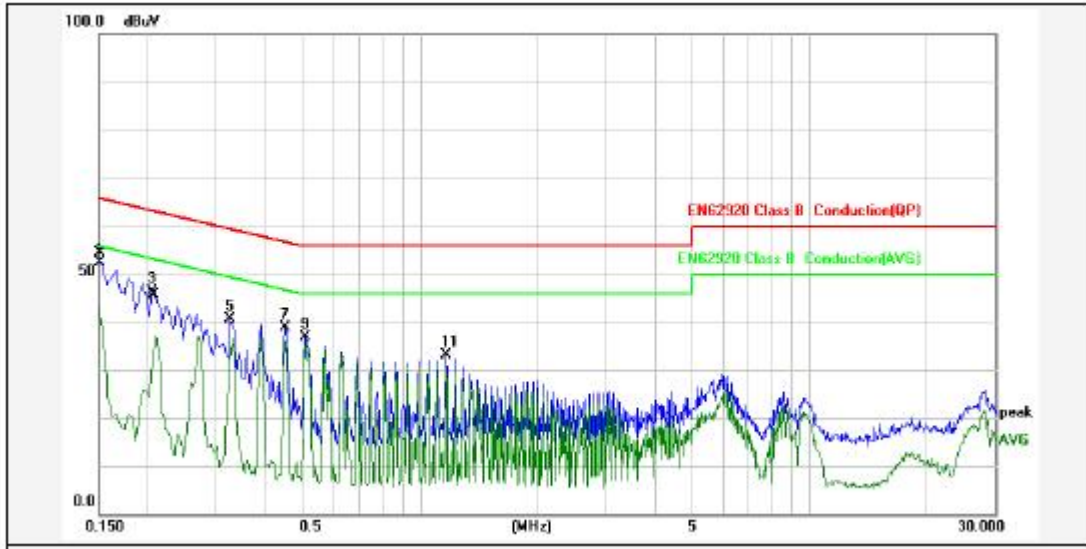
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz DC 48V
Test Mode:	2	Phase:	Neutral
Test Date:	2026-05-08	Test Port:	AC Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1514	10.07	39.13	49.20	65.92	-16.72	peak	P	
2	0.1514	10.07	29.88	39.95	55.92	-15.97	AVG	P	
3	0.2099	10.08	34.73	44.81	63.21	-18.40	peak	P	
4	0.2099	10.08	26.68	36.76	53.21	-16.45	AVG	P	
5	0.2700	10.09	30.77	40.86	61.12	-20.28	peak	P	
6	0.2700	10.09	24.92	35.01	51.12	-16.11	AVG	P	
7	0.3899	10.09	26.94	37.03	58.06	-21.03	peak	P	
8	0.3899	10.09	21.68	31.77	48.06	-16.29	AVG	P	
9	0.4500	10.09	21.18	31.27	46.87	-15.60	AVG	P	
10	0.4540	10.09	26.36	36.45	56.80	-20.35	peak	P	
11	0.5180	10.09	26.00	36.09	56.00	-19.91	peak	P	
12	0.5180	10.09	22.83	32.92	46.00	-13.08	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

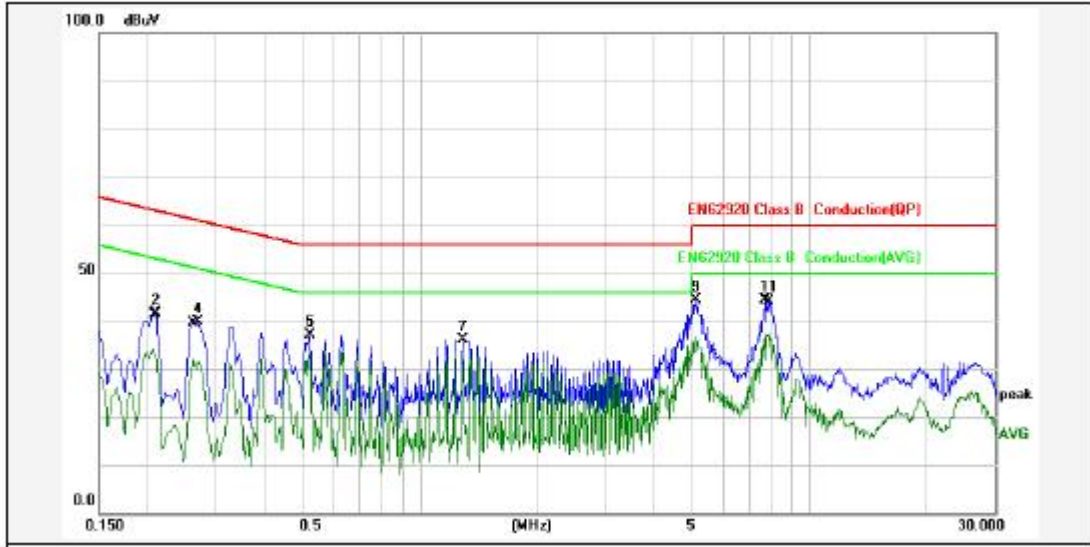
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz DC 48V
Test Mode:	2	Phase:	Line 1
Test Date:	2026-05-08	Test Port:	AC Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1514	10.07	42.37	52.44	65.92	-13.48	peak	P	
2	0.1514	10.07	30.09	40.16	55.92	-15.76	AVG	P	
3	0.2058	10.08	36.18	46.26	63.37	-17.11	peak	P	
4	0.2099	10.08	27.15	37.23	53.21	-15.98	AVG	P	
5	0.3260	10.09	30.64	40.73	59.55	-18.82	peak	P	
6	0.3300	10.09	26.65	36.74	49.45	-12.71	AVG	P	
7	0.4500	10.09	28.69	38.78	56.87	-18.09	peak	P	
8	0.4500	10.09	26.06	36.15	46.87	-10.72	AVG	P	
9	0.5100	10.09	26.75	36.84	56.00	-19.16	peak	P	
10	0.5100	10.09	25.14	35.23	46.00	-10.77	AVG	P	
11	1.1698	10.21	22.84	33.05	56.00	-22.95	peak	P	
12	1.1698	10.21	20.14	30.35	46.00	-15.65	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

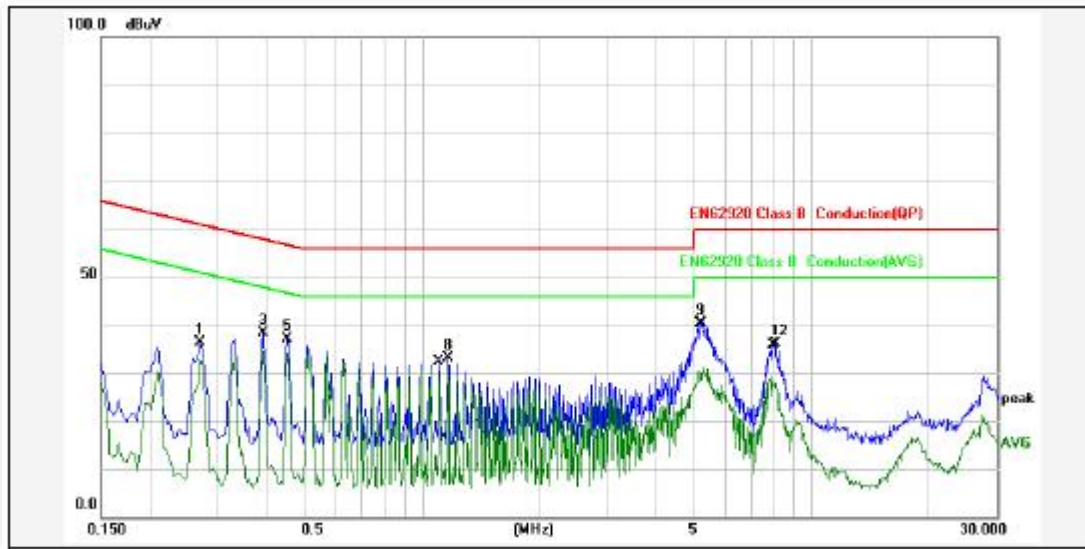
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	PV 370V DC 48V
Test Mode:	3	Phase:	Neutral
Test Date:	2026-05-08	Test Port:	AC Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2060	10.08	24.04	34.12	53.36	-19.24	AVG	P	
2	0.2100	10.08	31.47	41.55	63.20	-21.65	peak	P	
3	0.2620	10.09	21.88	31.97	51.36	-19.39	AVG	P	
4	0.2700	10.09	29.75	39.84	61.12	-21.28	peak	P	
5	0.5220	10.09	26.92	37.01	56.00	-18.99	peak	P	
6	0.5220	10.09	23.58	33.67	46.00	-12.33	AVG	P	
7	1.2900	10.23	25.93	36.16	56.00	-19.84	peak	P	
8	1.2900	10.23	23.56	33.79	46.00	-12.21	AVG	P	
9	5.1139	10.35	34.02	44.37	60.00	-15.63	peak	P	
10	5.1139	10.35	26.28	36.63	50.00	-13.37	AVG	P	
11	7.7099	10.44	34.03	44.47	60.00	-15.53	peak	P	
12	7.8899	10.46	26.94	37.40	50.00	-12.60	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

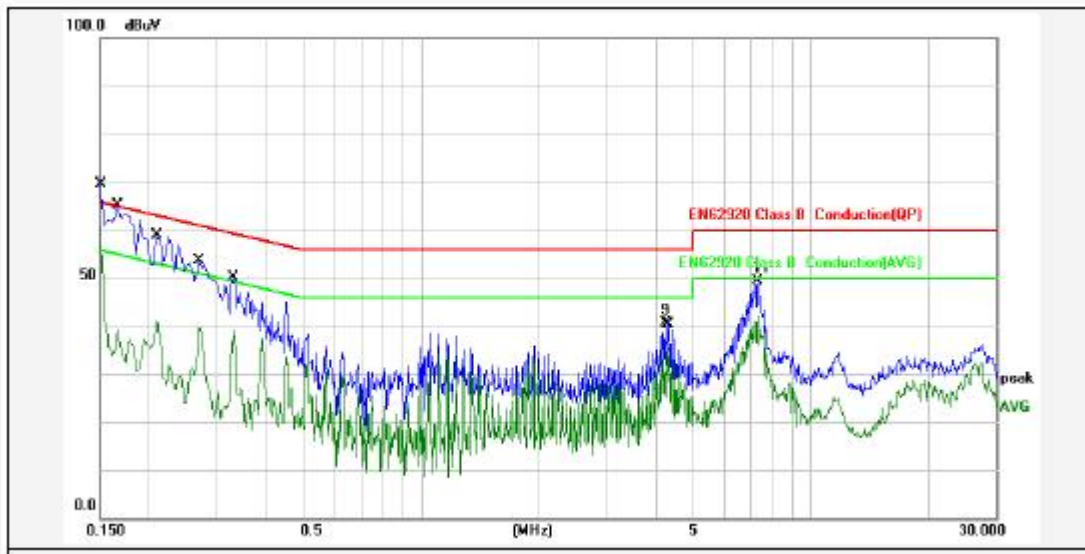
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	PV 370V DC 48V
Test Mode:	3	Phase:	Line 1
Test Date:	2026-05-08	Test Port:	AC Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2700	10.09	26.27	36.36	61.12	-24.76	peak	P	
2	0.2700	10.09	22.74	32.83	51.12	-18.29	AVG	P	
3	0.3899	10.09	28.38	38.47	58.06	-19.59	peak	P	
4	0.3899	10.09	24.54	34.63	48.06	-13.43	AVG	P	
5	0.4500	10.09	27.15	37.24	56.87	-19.63	peak	P	
6	0.4500	10.09	24.10	34.19	46.87	-12.68	AVG	P	
7	1.1100	10.21	20.10	30.31	46.00	-15.69	AVG	P	
8	1.1698	10.21	22.98	33.19	56.00	-22.81	peak	P	
9	5.1897	10.35	30.14	40.49	60.00	-19.51	peak	P	
10	5.2698	10.35	20.77	31.12	50.00	-18.88	AVG	P	
11	7.9499	10.46	18.79	29.25	50.00	-20.75	AVG	P	
12	8.0977	10.46	25.71	36.17	60.00	-23.83	peak	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

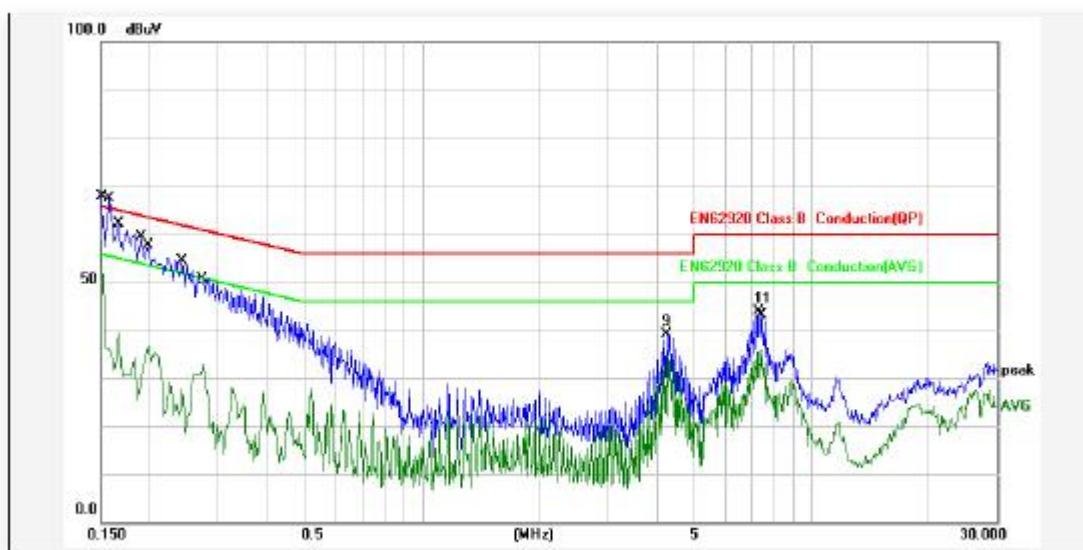
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz PV 370V DC 48V
Test Mode:	4	Phase:	Neutral
Test Date:	2026-05-08	Test Port:	AC Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1501	10.07	50.03	60.10	65.99	-5.89	QP	P	
2	0.1501	10.07	35.03	45.10	55.99	-10.89	AVG	P	
3	0.1660	10.08	50.52	60.60	65.15	-4.55	QP	P	
4	0.2100	10.08	31.02	41.10	53.20	-12.10	AVG	P	
5	0.2700	10.09	40.41	50.50	61.12	-10.62	QP	P	
6	0.2700	10.09	29.51	39.60	51.12	-11.52	AVG	P	
7	0.3300	10.09	37.21	47.30	59.45	-12.15	QP	P	
8	0.3300	10.09	29.04	39.13	49.45	-10.32	AVG	P	
9	4.2579	10.33	30.34	40.67	56.00	-15.33	peak	P	
10	4.3338	10.33	24.94	35.27	46.00	-10.73	AVG	P	
11	7.3500	10.43	38.84	49.27	60.00	-10.73	peak	P	
12	7.3500	10.43	31.74	42.17	50.00	-7.83	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

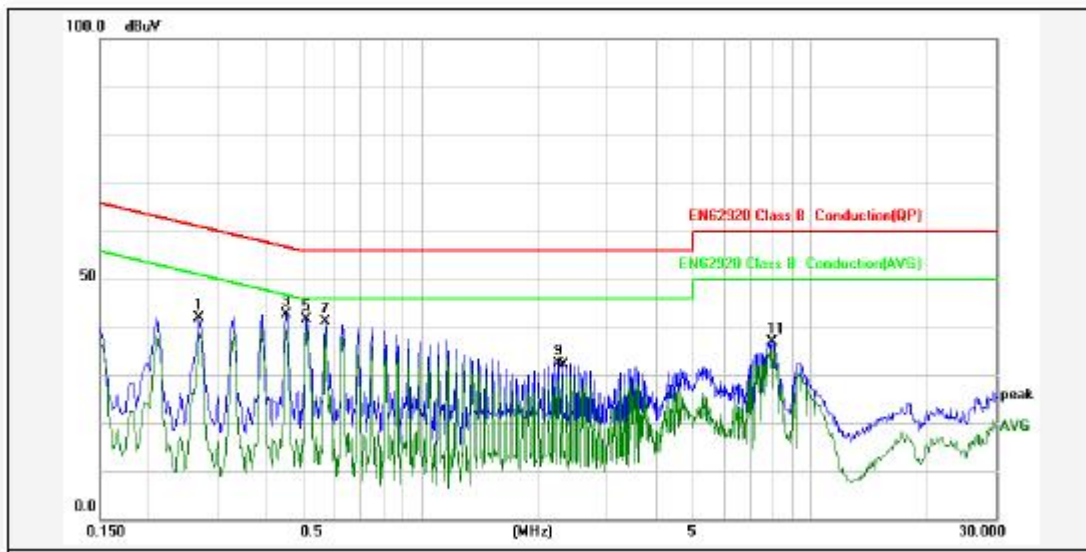
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz PV 370V DC 48V
Test Mode:	4	Phase:	Line 1
Test Date:	2026-05-08	Test Port:	AC Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1501	10.07	48.63	58.70	65.99	-7.29	QP	P	
2	0.1501	10.07	31.73	41.80	55.99	-14.19	AVG	P	
3	0.1580	10.08	48.82	58.90	65.56	-6.66	QP	P	
4	0.1660	10.08	29.12	39.20	55.15	-15.95	AVG	P	
5	0.1900	10.08	46.22	56.30	64.03	-7.73	QP	P	
6	0.1980	10.08	26.52	36.60	53.69	-17.09	AVG	P	
7	0.2419	10.08	41.12	51.20	62.03	-10.83	QP	P	
8	0.2740	10.09	22.61	32.70	50.99	-18.29	AVG	P	
9	4.2579	10.33	28.90	39.23	56.00	-16.77	peak	P	
10	4.2579	10.33	23.74	34.07	46.00	-11.93	AVG	P	
11	7.3498	10.43	33.37	43.80	60.00	-16.20	peak	P	
12	7.4340	10.43	25.34	35.77	50.00	-14.23	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

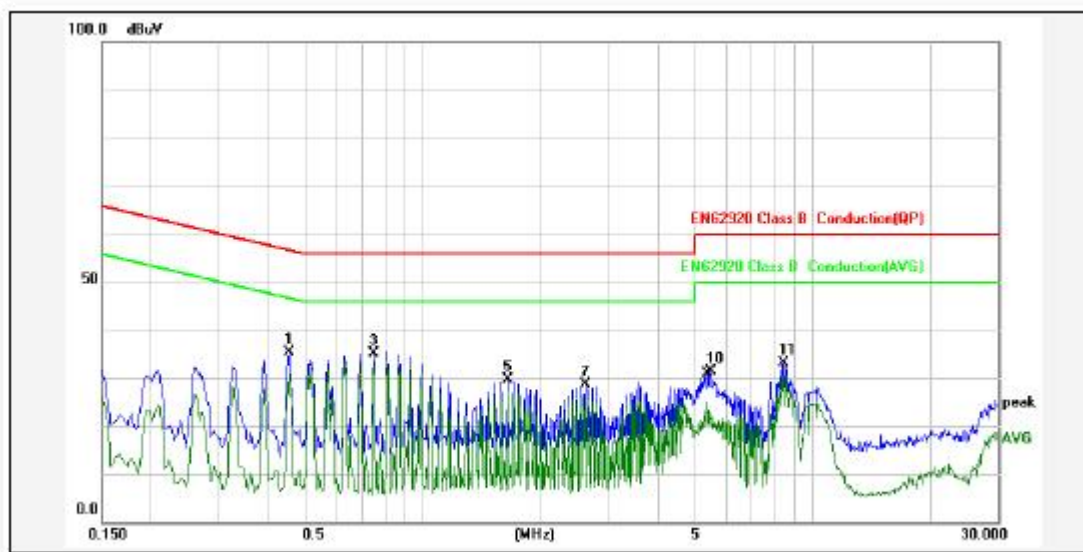
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz DC 48V
Test Mode:	5	Phase:	Neutral
Test Date:	2026-05-08	Test Port:	AC Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2700	10.09	31.74	41.83	61.12	-19.29	peak	P	
2	0.2700	10.09	28.54	38.63	51.12	-12.49	AVG	P	
3	0.4500	10.09	32.57	42.66	56.87	-14.21	peak	P	
4	0.4500	10.09	29.40	39.49	46.87	-7.38	AVG	P	
5	0.5100	10.09	31.47	41.56	56.00	-14.44	peak	P	
6	0.5100	10.09	29.13	39.22	46.00	-6.78	AVG	P	
7	0.5698	10.10	31.13	41.23	56.00	-14.77	peak	P	
8	0.5700	10.10	28.60	38.70	46.00	-7.30	AVG	P	
9	2.2500	10.26	22.14	32.40	56.00	-23.60	peak	P	
10	2.3100	10.26	19.01	29.27	46.00	-16.73	AVG	P	
11	8.0099	10.46	26.40	36.86	60.00	-23.14	peak	P	
12	8.0099	10.46	24.96	35.42	50.00	-14.58	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

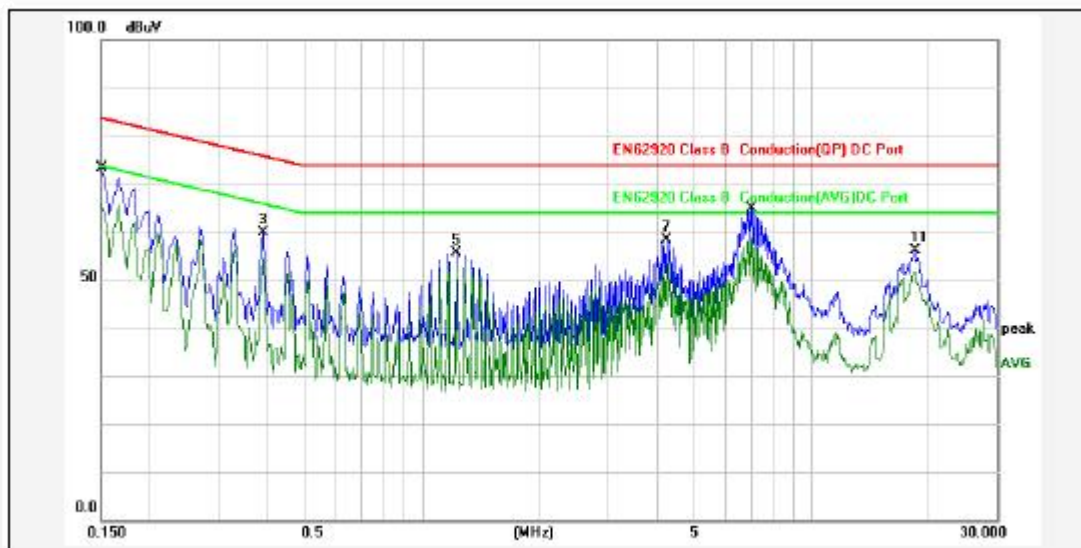
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz DC 48V
Test Mode:	5	Phase:	Line 1
Test Date:	2026-05-08	Test Port:	AC Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.4540	10.09	25.23	35.32	56.80	-21.48	peak	P	
2	0.4540	10.09	20.89	30.98	46.80	-15.82	AVG	P	
3	0.7500	10.11	24.98	35.09	56.00	-20.91	peak	P	
4	0.7500	10.11	23.68	33.79	46.00	-12.21	AVG	P	
5	1.6498	10.23	19.41	29.64	56.00	-26.36	peak	P	
6	1.6498	10.23	17.25	27.48	46.00	-18.52	AVG	P	
7	2.6099	10.26	18.46	28.72	56.00	-27.28	peak	P	
8	2.6099	10.26	15.87	26.13	46.00	-19.87	AVG	P	
9	5.3699	10.37	14.60	24.97	50.00	-25.03	AVG	P	
10	5.4897	10.37	21.06	31.43	60.00	-28.57	peak	P	
11	8.4298	10.47	22.63	33.10	60.00	-26.90	peak	P	
12	8.4298	10.47	20.11	30.58	50.00	-19.42	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

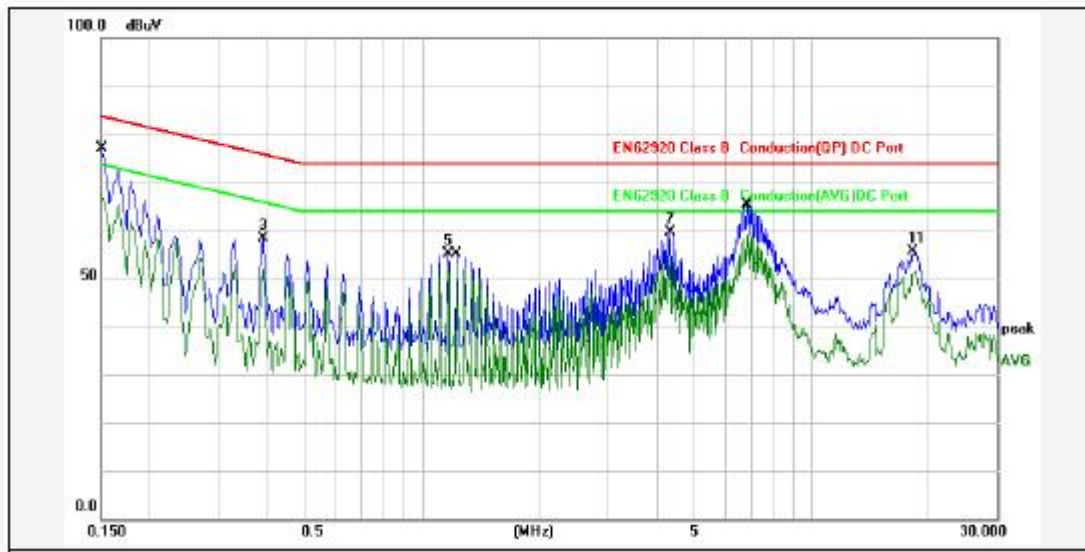
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26℃	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	PV 370V DC 48V
Test Mode:	3	Phase:	Positive
Test Date:	2026-05-08	Test Port:	PV Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1514	29.56	39.54	69.10	83.92	-14.82	QP	P	
2	0.1514	29.56	35.14	64.70	73.92	-9.22	AVG	P	
3	0.3899	28.77	31.06	59.83	76.06	-16.23	peak	P	
4	0.3899	28.77	25.52	54.29	66.06	-11.77	AVG	P	
5	1.2298	28.83	26.76	55.59	74.00	-18.41	peak	P	
6	1.2298	28.83	24.81	53.64	64.00	-10.36	AVG	P	
7	4.2618	29.03	29.32	58.35	74.00	-15.65	peak	P	
8	4.2618	29.03	24.28	53.31	64.00	-10.69	AVG	P	
9	7.0500	29.33	32.47	61.80	74.00	-12.20	QP	P	
10	7.0500	29.33	29.27	58.60	64.00	-5.40	AVG	P	
11	18.4817	30.41	25.80	56.21	74.00	-17.79	peak	P	
12	18.4817	30.41	21.32	51.73	64.00	-12.27	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

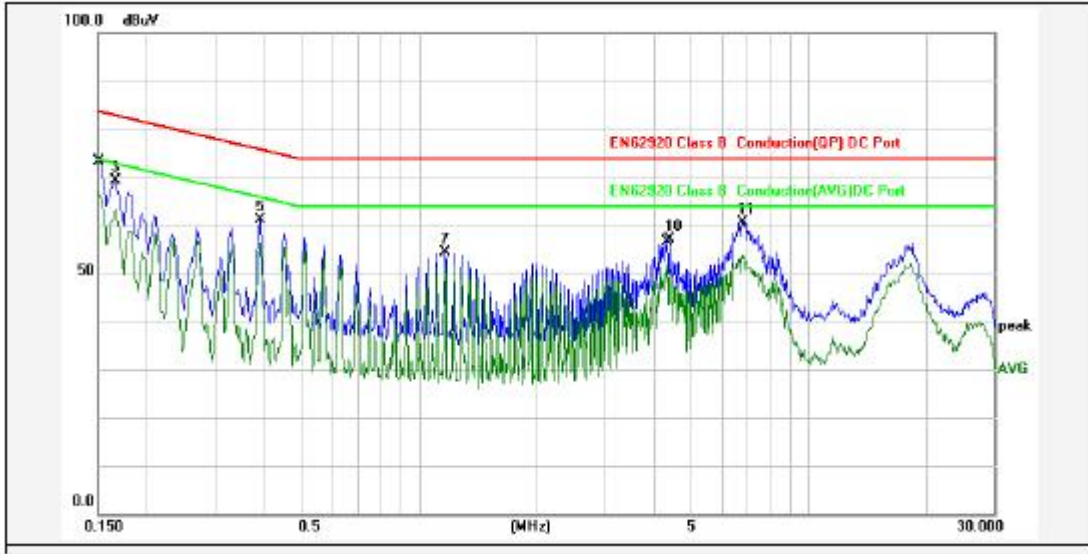
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	PV 370V DC 48V
Test Mode:	3	Phase:	Negative
Test Date:	2026-05-08	Test Port:	PV Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1514	29.56	43.14	72.70	83.92	-11.22	QP	P	
2	0.1514	29.56	36.94	66.50	73.92	-7.42	AVG	P	
3	0.3899	28.77	29.67	58.44	76.06	-17.62	peak	P	
4	0.3899	28.77	23.11	51.88	66.06	-14.18	AVG	P	
5	1.1698	28.83	26.20	55.03	74.00	-18.97	peak	P	
6	1.2298	28.83	24.16	52.99	64.00	-11.01	AVG	P	
7	4.3379	29.04	30.50	59.54	74.00	-14.46	peak	P	
8	4.3379	29.04	25.79	54.83	64.00	-9.17	AVG	P	
9	6.8180	29.31	33.09	62.40	74.00	-11.60	QP	P	
10	6.8940	29.32	29.68	59.00	64.00	-5.00	AVG	P	
11	18.3018	30.39	25.23	55.62	74.00	-18.38	peak	P	
12	18.4817	30.41	21.34	51.75	64.00	-12.25	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

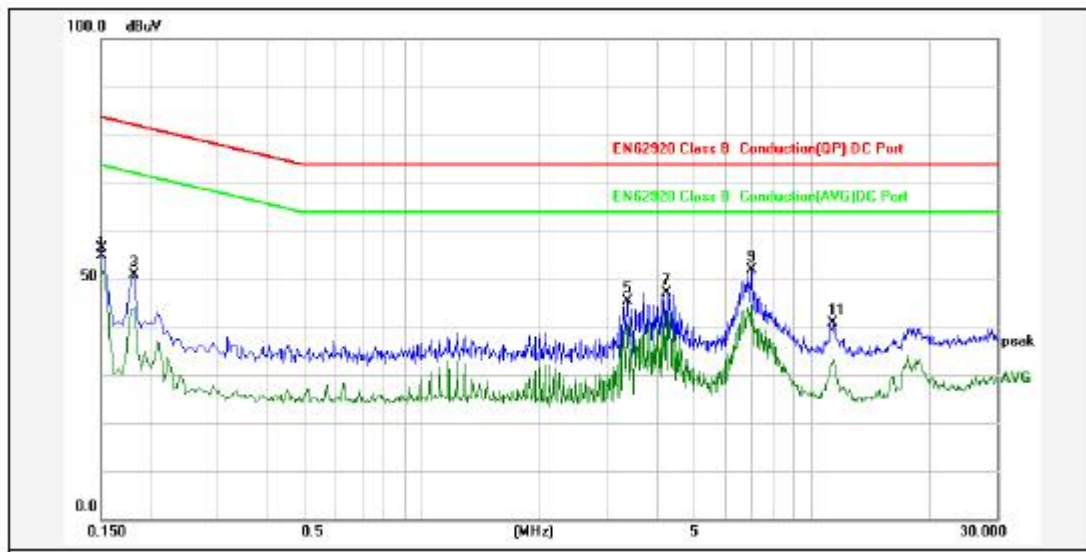
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	PV 370V DC 48V
Test Mode:	3	Phase:	CM
Test Date:	2026-05-08	Test Port:	PV Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1514	29.56	40.34	69.90	83.92	-14.02	QP	P	
2	0.1514	29.56	36.54	66.10	73.92	-7.82	AVG	P	
3	0.1680	29.40	40.04	69.44	83.15	-13.71	peak	P	
4	0.1680	29.40	33.91	63.31	73.15	-9.84	AVG	P	
5	0.3899	28.77	32.33	61.10	76.06	-14.96	peak	P	
6	0.3899	28.77	27.53	56.30	66.06	-9.76	AVG	P	
7	1.1697	28.83	25.59	54.42	74.00	-19.58	peak	P	
8	1.1697	28.83	22.98	51.81	64.00	-12.19	AVG	P	
9	4.3379	29.04	22.74	51.78	64.00	-12.22	AVG	P	
10	4.4138	29.05	27.99	57.04	74.00	-16.96	peak	P	
11	6.7780	29.31	31.44	60.75	74.00	-13.25	peak	P	
12	6.7780	29.31	24.46	53.77	64.00	-10.23	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

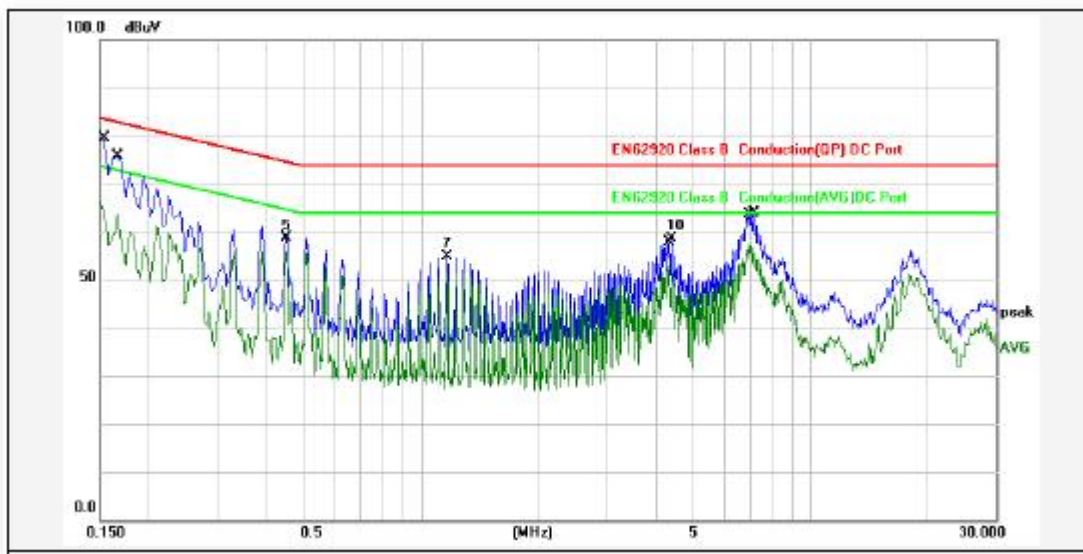
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	PV 370V DC 48V
Test Mode:	3	Phase:	DM
Test Date:	2026-05-08	Test Port:	PV Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1514	29.56	25.41	54.97	83.92	-28.95	peak	P	
2	0.1514	29.56	21.75	51.31	73.92	-22.61	AVG	P	
3	0.1819	29.22	21.71	50.93	82.39	-31.46	peak	P	
4	0.1819	29.22	14.86	44.08	72.39	-28.31	AVG	P	
5	3.3700	28.95	16.36	45.31	74.00	-28.69	peak	P	
6	3.3700	28.95	11.70	40.65	64.00	-23.35	AVG	P	
7	4.2579	29.03	18.17	47.20	74.00	-26.80	peak	P	
8	4.2579	29.03	14.39	43.42	64.00	-20.58	AVG	P	
9	7.0499	29.33	22.51	51.84	74.00	-22.16	peak	P	
10	7.0499	29.33	15.24	44.57	64.00	-19.43	AVG	P	
11	11.4177	29.77	11.01	40.78	74.00	-33.22	peak	P	
12	11.4177	29.77	3.51	33.28	64.00	-30.72	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

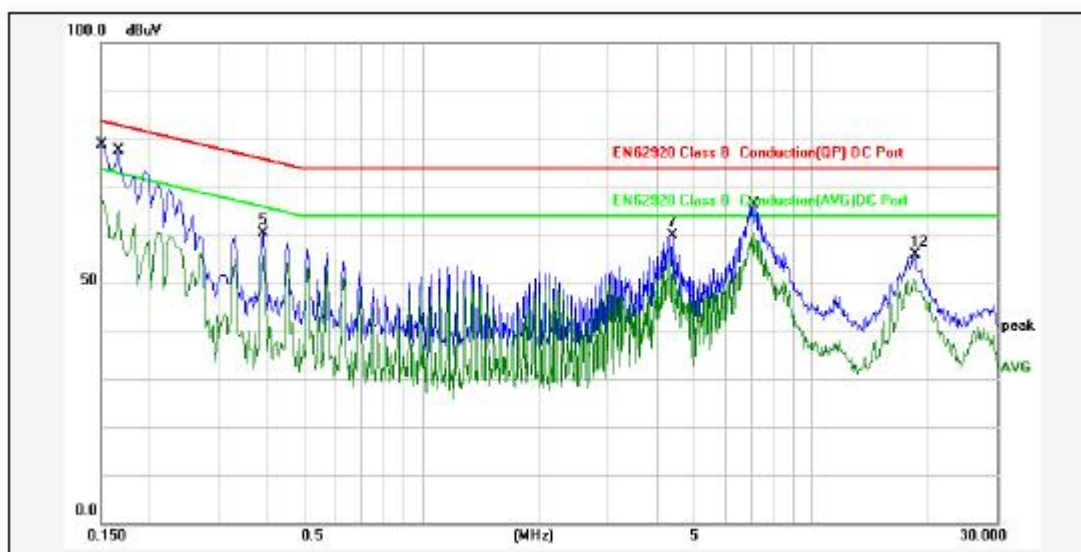
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz PV 370V DC 48V
Test Mode:	4	Phase:	Positive
Test Date:	2026-05-08	Test Port:	PV Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1524	29.56	34.94	64.50	73.86	-9.36	AVG	P	
2	0.1539	29.54	46.96	76.50	83.78	-7.28	QP	P	
3	0.1680	29.40	43.50	72.90	83.15	-10.25	QP	P	
4	0.1680	29.40	34.40	63.80	73.15	-9.35	AVG	P	
5	0.4500	28.75	30.00	58.75	74.87	-16.12	peak	P	
6	0.4500	28.75	27.16	55.91	64.87	-8.96	AVG	P	
7	1.1698	28.83	26.15	54.98	74.00	-19.02	peak	P	
8	1.1698	28.83	22.62	51.45	64.00	-12.55	AVG	P	
9	4.3379	29.04	23.86	52.90	64.00	-11.10	AVG	P	
10	4.4138	29.05	29.58	58.63	74.00	-15.37	peak	P	
11	6.9700	29.33	27.87	57.20	64.00	-6.80	AVG	P	
12	7.1980	29.36	31.54	60.90	74.00	-13.10	QP	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

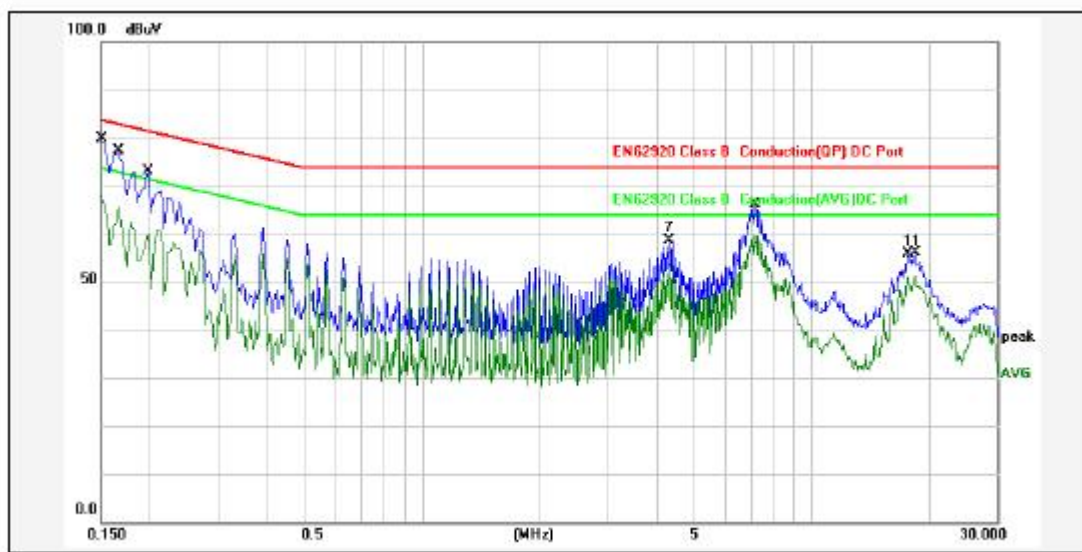
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz PV 370V DC 48V
Test Mode:	4	Phase:	Negative
Test Date:	2026-05-08	Test Port:	PV Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1514	29.56	45.84	75.40	83.92	-8.52	QP	P	
2	0.1514	29.56	34.34	63.80	73.92	-10.02	AVG	P	
3	0.1660	29.40	45.20	74.60	83.15	-8.55	QP	P	
4	0.1660	29.40	35.60	65.00	73.15	-8.15	AVG	P	
5	0.3899	28.77	31.59	60.36	76.06	-15.70	peak	P	
6	0.3899	28.77	26.96	55.73	66.06	-10.33	AVG	P	
7	4.4099	29.05	30.81	59.86	74.00	-14.14	peak	P	
8	4.4099	29.05	25.85	54.90	64.00	-9.10	AVG	P	
9	7.1180	29.34	34.26	63.60	74.00	-10.40	QP	P	
10	7.1180	29.34	31.06	60.40	64.00	-3.60	AVG	P	
11	18.3617	30.40	20.48	50.88	64.00	-13.12	AVG	P	
12	18.4497	30.40	25.46	55.86	74.00	-18.14	peak	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

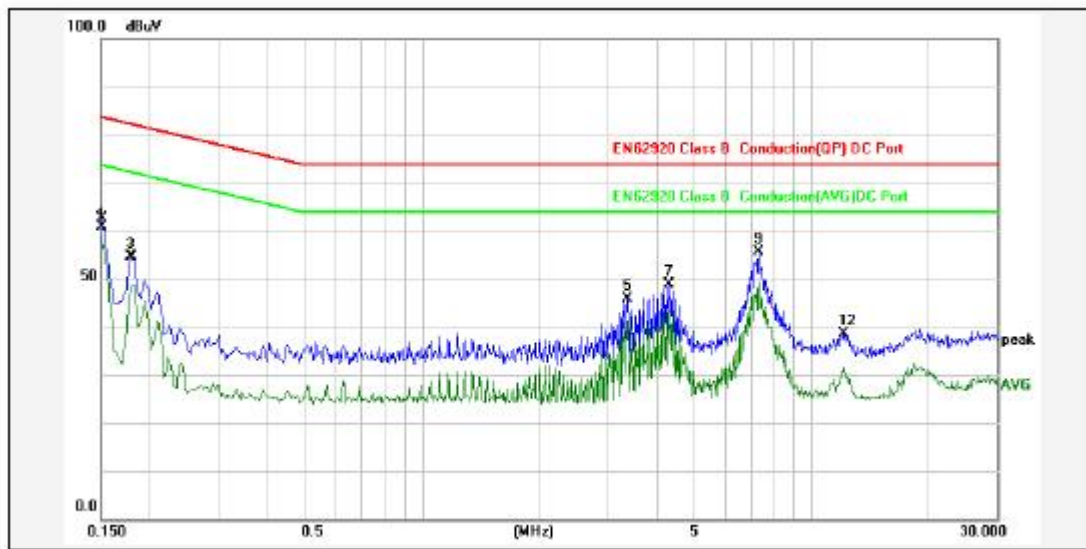
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz PV 370V DC 48V
Test Mode:	4	Phase:	CM
Test Date:	2026-05-08	Test Port:	PV Input Port



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1514	29.56	46.54	76.10	83.92	-7.82	QP	P	
2	0.1514	29.56	37.24	66.80	73.92	-7.12	AVG	P	
3	0.1680	29.40	44.80	74.20	83.15	-8.95	QP	P	
4	0.1680	29.40	36.30	65.70	73.15	-7.45	AVG	P	
5	0.1980	29.03	41.07	70.10	81.69	-11.59	QP	P	
6	0.1980	29.03	31.17	60.20	71.69	-11.49	AVG	P	
7	4.3338	29.04	29.65	58.69	74.00	-15.31	peak	P	
8	4.3338	29.04	24.80	53.84	64.00	-10.16	AVG	P	
9	7.1180	29.34	30.56	59.90	64.00	-4.10	AVG	P	
10	7.1940	29.36	34.24	63.60	74.00	-10.40	QP	P	
11	17.7619	30.35	25.60	55.95	74.00	-18.05	peak	P	
12	18.4817	30.41	20.86	51.27	64.00	-12.73	AVG	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	26°C	Relative Humidity:	60%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz PV 370V DC 48V
Test Mode:	4	Phase:	DM
Test Date:	2026-05-08	Test Port:	PV Input Port

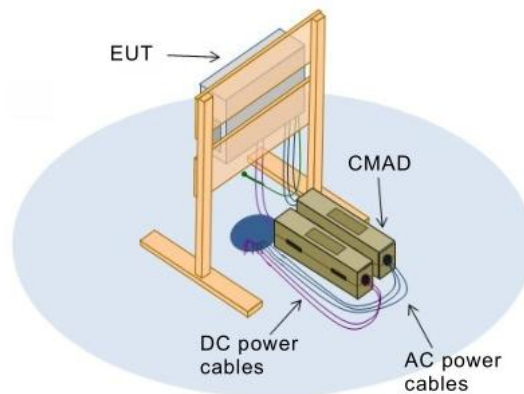
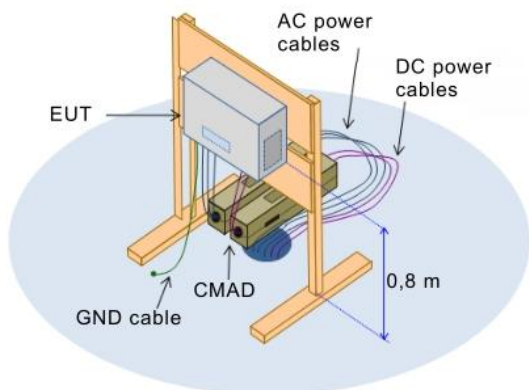


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1514	29.56	31.22	60.78	83.92	-23.14	peak	P	
2	0.1514	29.56	27.29	56.85	73.92	-17.07	AVG	P	
3	0.1779	29.27	25.29	54.56	82.58	-28.02	peak	P	
4	0.1819	29.22	19.61	48.83	72.39	-23.56	AVG	P	
5	3.3660	28.95	17.05	46.00	74.00	-28.00	peak	P	
6	3.3660	28.95	12.51	41.46	64.00	-22.54	AVG	P	
7	4.3338	29.04	19.84	48.88	74.00	-25.12	peak	P	
8	4.3338	29.04	14.33	43.37	64.00	-20.63	AVG	P	
9	7.3498	29.37	26.15	55.52	74.00	-18.48	peak	P	
10	7.3498	29.37	19.95	49.32	64.00	-14.68	AVG	P	
11	12.0777	29.82	1.68	31.50	64.00	-32.50	AVG	P	
12	12.1577	29.83	8.71	38.54	74.00	-35.46	peak	P	

Remark: The PEAK value is lower than the AVG value limit, it can be judged as PASS without further testing the QP value.

6.RADIATED EMISSION MEASUREMENT

6.1.Block Diagram of Test Setup



6.2.Limit of Radiated Emission Measurement

Electromagnetic radiation disturbance limits for class A PCE measured on a test site

Frequency range MHz	3 m measuring distance rated power of	
	<input type="checkbox"/> Rated power of ≤ 20 kVA	<input type="checkbox"/> Rated power of > 20 kVA
	Quasi-peak dB(μ V/m)	Quasi-peak dB(μ V/m)
30 to 230	50	60
230 to 1000	57	60

At the transition frequency, the more stringent limit shall apply.

Electromagnetic radiation disturbance limits for class B PCE measured on a test site

Frequency range MHz	Quasi-peak dB(μ V/m)
30 to 230	40
230 to 1000	47

At the transition frequency, the more stringent limit shall apply.

Required highest frequency for radiated measurement

Highest internal frequency* (Fx)	Highest measured frequency
$F_x \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} < F_x \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} < F_x \leq 1 \text{ GHz}$	5 GHz
$F_x > 1 \text{ GHz}$	$5 \times F_x$ up to a maximum of 6 GHz
Note	1. Highest fundamental frequency generated or used within the EUT or highest frequency at which it operates. 2. Where F_x is unknown, the radiated emission measurements shall be performed up to 6 GHz.

6.3. Test Procedure

- a. The EUT was placed on a Insulating support table top 0.8m above ground.
- b. The EUT was set 3m away from the receiving antenna which was mounted on the top of a variable height antenna tower.
- c. Configure the EUT and support devices as per section 6.1.
- d. All cables and support devices were positioned as per EN 62920.
- e. Connect mains power port of the EUT to the outlet socket under the turntable and connect all other support devices to other outlet socket under the turntable.
- f. Turn on the EUT and all support devices, and make it run stably.
- g. Set the detector and measurement bandwidth of test-receiver system as per EN 62920.
- h. Scan the frequency range from 30MHz to 1000MHz for radiation emissions checking.
- i. Emissions were scanned and measured rotating the EUT from 0 to 360 degrees and positioning the antenna from 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- j. Repeat the above scans in each mode and channel and record the test data.

6.4. Test Results

PASS.

Please refer to the following pages.

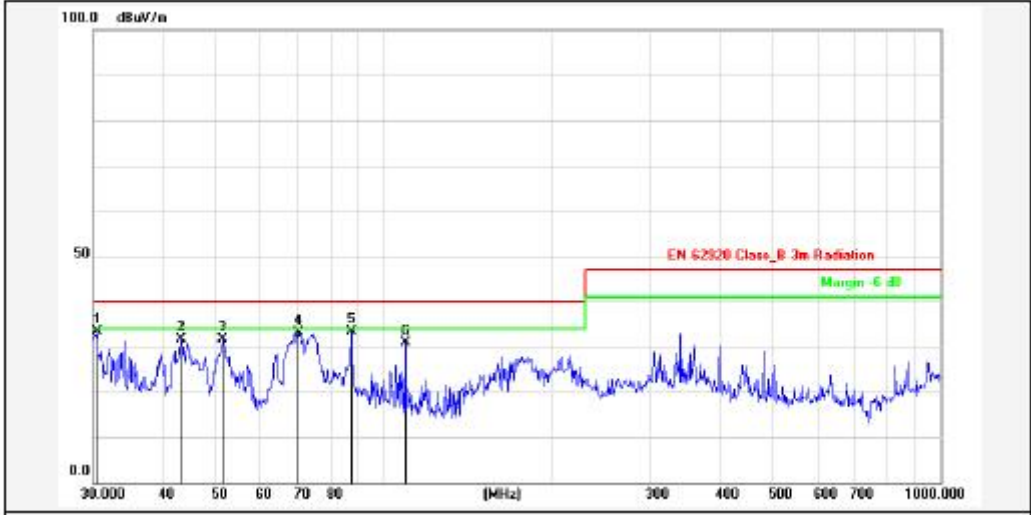
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	23.5°C	Relative Humidity:	58%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz
Test Mode:	1	Polarization:	Vertical
Test Date:	2026-05-07		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	45.2165	-9.61	41.40	31.79	40.00	-8.21	peak			P	
2	55.2207	-10.04	43.22	33.18	40.00	-6.82	peak			P	
3	66.9668	-12.24	45.05	32.81	40.00	-7.19	peak			P	
4	147.9214	-13.37	39.85	26.48	40.00	-13.52	peak			P	
5	192.4182	-11.46	41.43	29.97	40.00	-10.03	peak			P	
6	207.8497	-10.93	41.09	30.16	40.00	-9.84	peak			P	

Remark: The PEAK value is lower than the QP value limit, it can be judged as PASS without further testing the QP value.

E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	23.5°C	Relative Humidity:	58%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz
Test Mode:	1	Polarization:	Horizontal
Test Date:	2026-05-07		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.4237	-12.63	45.89	33.26	40.00	-6.74	peak			P	
2	43.0504	-10.02	41.71	31.69	40.00	-8.31	peak			P	
3	51.1208	-9.63	41.22	31.59	40.00	-8.41	peak			P	
4	70.0901	-13.51	46.58	33.07	40.00	-6.93	peak			P	
5	87.1115	-13.61	47.11	33.50	40.00	-6.50	peak			P	
6	109.0284	-11.77	42.67	30.90	40.00	-9.10	peak			P	

Remark: The PEAK value is lower than the QP value limit, it can be judged as PASS without further testing the QP value.

E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	23.5°C	Relative Humidity:	58%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz DC 48V
Test Mode:	2	Polarization:	Vertical
Test Date:	2026-05-07		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	34.5172	-12.36	43.86	31.50	40.00	-8.50	QP			P	
2	45.0583	-9.61	44.51	34.90	40.00	-5.10	QP			P	
3	48.6719	-9.50	41.50	32.00	40.00	-8.00	QP			P	
4	52.7599	-9.79	40.99	31.20	40.00	-8.80	QP			P	
5	134.5591	-13.95	45.25	31.30	40.00	-8.70	QP			P	
6	144.8418	-13.51	46.51	33.00	40.00	-7.00	QP			P	

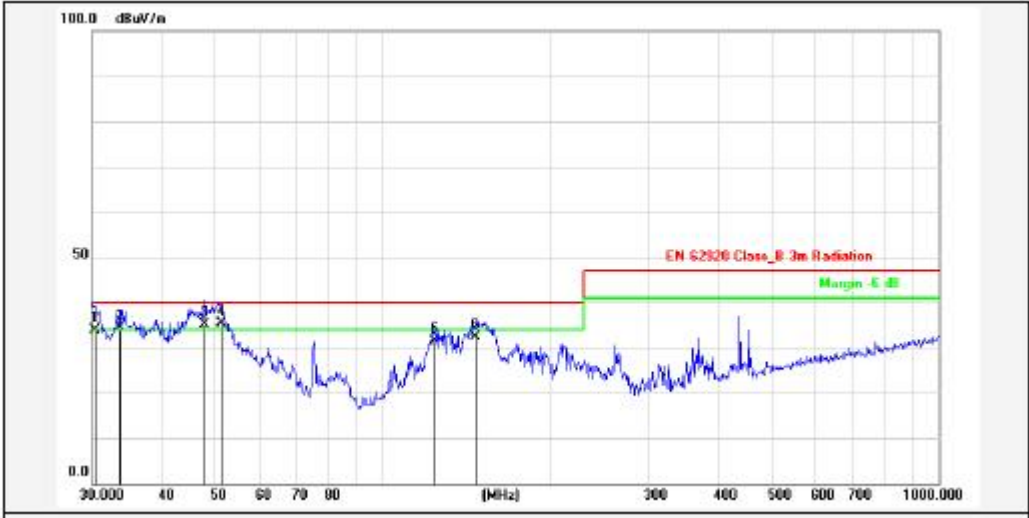
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	23.5°C	Relative Humidity:	58%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz DC 48V
Test Mode:	2	Polarization:	Horizontal
Test Date:	2026-05-07		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	142.8243	-13.59	41.10	27.51	40.00	-12.49	peak			P	
2	211.5265	-10.83	39.52	28.69	40.00	-11.31	peak			P	
3	225.3080	-10.47	37.35	26.88	40.00	-13.12	peak			P	
4	793.3960	0.38	33.58	33.96	47.00	-13.04	peak			P	
5	842.1296	0.97	32.18	33.15	47.00	-13.85	peak			P	
6	875.2470	1.40	33.53	34.93	47.00	-12.07	peak			P	

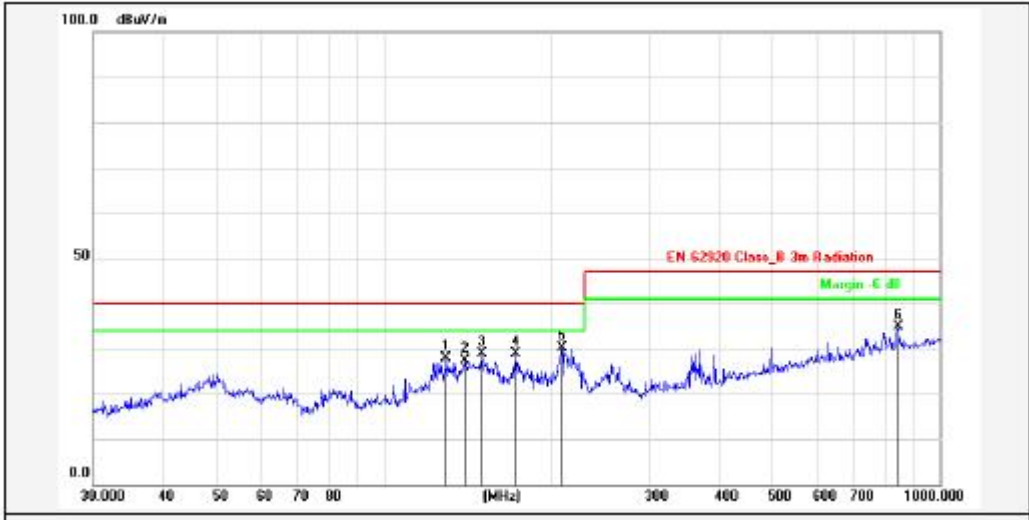
Remark: The PEAK value is lower than the QP value limit, it can be judged as PASS without further testing the QP value.

E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	23.5℃	Relative Humidity:	58%
Pressure:	1011hPa	Test Voltage:	PV 370V DC 48V
Test Mode:	3	Polarization:	Vertical
Test Date:	2026-05-07		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	p/F	Remark
1	30.3173	-12.65	46.65	34.00	40.00	-6.00	QP			P	
2	33.6802	-12.42	46.92	34.50	40.00	-5.50	QP			P	
3	47.6584	-9.51	44.61	35.10	40.00	-4.90	QP			P	
4	51.1209	-9.63	44.93	35.30	40.00	-4.70	QP			P	
5	123.6984	-13.23	44.73	31.50	40.00	-8.50	QP			P	
6	146.8874	-13.42	45.92	32.50	40.00	-7.50	QP			P	

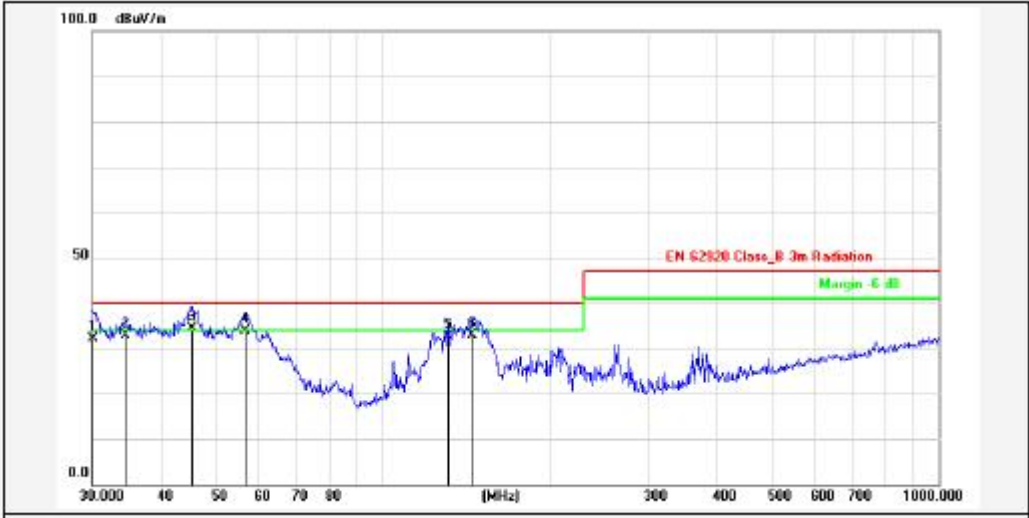
E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	23.5℃	Relative Humidity:	58%
Pressure:	1011hPa	Test Voltage:	PV 370V DC 48V
Test Mode:	3	Polarization:	Horizontal
Test Date:	2026-05-07		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	p/F	Remark
1	129.4677	-14.07	41.92	27.85	40.00	-12.15	peak			P	
2	139.8508	-13.72	41.05	27.33	40.00	-12.67	peak			P	
3	150.0108	-13.29	42.25	28.96	40.00	-11.04	peak			P	
4	172.5988	-12.32	41.18	28.86	40.00	-11.14	peak			P	
5	209.3129	-10.89	41.07	30.18	40.00	-9.82	peak			P	
6	842.1296	0.97	33.85	34.82	47.00	-12.18	peak			P	

Remark: The PEAK value is lower than the QP value limit, it can be judged as PASS without further testing the QP value.

E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	23.5°C	Relative Humidity:	58%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz PV 370V DC 48V
Test Mode:	4	Polarization:	Vertical
Test Date:	2026-05-07		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.2111	-12.65	44.85	32.20	40.00	-7.80	QP			P	
2	34.3962	-12.38	45.38	33.00	40.00	-7.00	QP			P	
3	45.3755	-9.60	44.10	34.50	40.00	-5.50	QP			P	
4	56.3948	-10.20	44.20	34.00	40.00	-6.00	QP			P	
5	130.8369	-14.11	46.71	32.60	40.00	-7.40	QP			P	
6	144.8418	-13.51	46.51	33.00	40.00	-7.00	QP			P	

E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	23.5°C	Relative Humidity:	58%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz PV 370V DC 48V
Test Mode:	4	Polarization:	Horizontal
Test Date:	2026-05-07		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	134.5592	-13.95	43.14	29.19	40.00	-10.81	peak			P	
2	148.4410	-13.35	41.60	28.25	40.00	-11.75	peak			P	
3	209.3129	-10.89	40.46	29.57	40.00	-10.43	peak			P	
4	656.5300	-0.92	38.51	37.59	47.00	-9.41	peak			P	
5	742.2587	-0.09	35.46	35.37	47.00	-11.63	peak			P	
6	766.0571	0.13	36.18	36.31	47.00	-10.69	peak			P	

Remark: The PEAK value is lower than the QP value limit, it can be judged as PASS without further testing the QP value.

E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	23.5°C	Relative Humidity:	58%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz DC 48V
Test Mode:	5	Polarization:	Vertical
Test Date:	2026-05-07		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.1054	-12.66	43.46	30.80	40.00	-9.20	QP			P	
2	33.2111	-12.45	43.45	31.00	40.00	-9.00	QP			P	
3	47.9940	-9.49	42.49	33.00	40.00	-7.00	QP			P	
4	61.9949	-11.25	42.81	31.56	40.00	-8.44	peak			P	
5	123.6985	-13.23	44.23	31.00	40.00	-9.00	QP			P	
6	152.1297	-13.19	45.39	32.20	40.00	-7.80	QP			P	

Remark: The PEAK value is lower than the QP value limit, it can be judged as PASS without further testing the QP value.

E.U.T:	Hybrid Inverter	Model Name :	IVGM6KLP1G2
Temperature :	23.5℃	Relative Humidity:	58%
Pressure:	1011hPa	Test Voltage:	AC 230V 50Hz DC 48V
Test Mode:	5	Polarization:	Horizontal
Test Date:	2026-05-07		

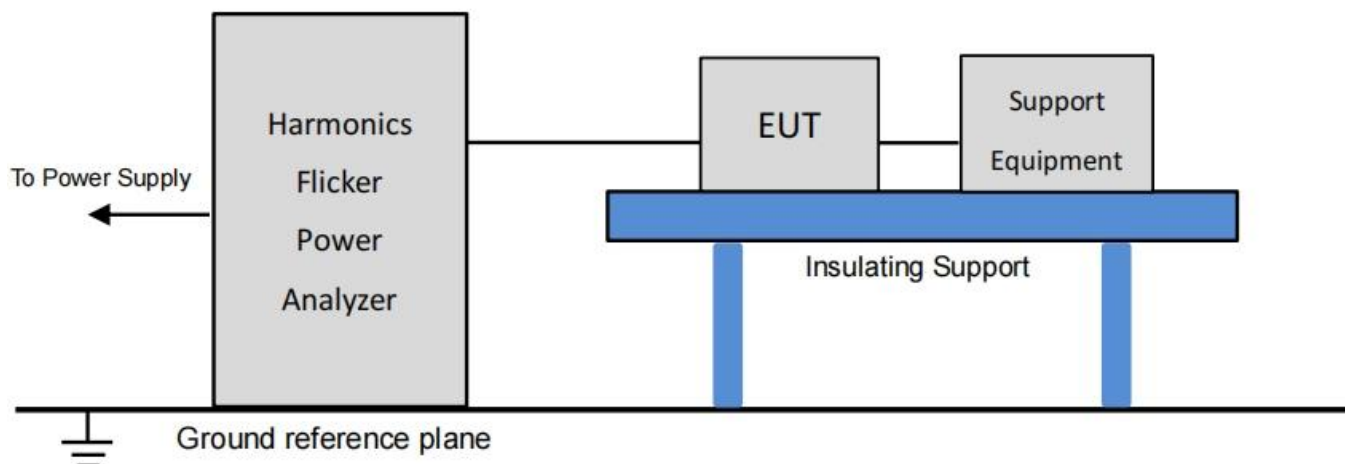


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	130.8369	-14.11	43.50	29.39	40.00	-10.61	peak			P	
2	142.8243	-13.59	40.51	26.92	40.00	-13.08	peak			P	
3	210.7860	-10.86	38.23	27.37	40.00	-12.63	peak			P	
4	225.3080	-10.47	37.01	26.54	40.00	-13.46	peak			P	
5	838.2443	0.90	35.75	36.65	47.00	-10.35	peak			P	
6	909.6667	1.83	31.37	33.20	47.00	-13.80	peak			P	

Remark: The PEAK value is lower than the QP value limit, it can be judged as PASS without further testing the QP value.

7.HARMONIC CURRENT EMISSION MEASUREMENT

7.1.Block Diagram of Test Setup



7.2.Test Limits

Limits for equipment other than balanced three-phase equipment

Minimal R_{sce}	Admissible individual harmonic current I_h/I_{ref}^a %						Admissible harmonic parameters %	
	I_3	I_5	I_7	I_9	I_{11}	I_{13}	THC/ I_{ref}	PWHC / I_{ref}
33	21,6	10,7	7,2	3,8	3,1	2	23	23
66	24	13	8	5	4	3	26	26
120	27	15	10	6	5	4	30	30
250	35	20	13	9	8	6	40	40
≥ 350	41	24	15	12	10	8	47	47

Note: I_{ref} = reference current; I_h = harmonic current component.

Limits for balanced three-phase equipment

Minimal R_{sce}	Admissible individual harmonic current I_h/I_{ref}^a %				Admissible harmonic parameters %	
	I_5	I_7	I_{11}	I_{13}	THC/ I_{ref}	PWHC/ I_{ref}
33	10,7	7,2	3,1	2	13	22
66	14	9	5	3	16	25
V	19	12	7	4	22	28
250	31	20	12	7	37	38
≥ 350	40	25	15	10	48	46

Note: I_{ref} = reference current; I_h = harmonic current component.

Limits for Class A equipment($\leq 16A$)

Harmonics Order h	Max. permissible harmonics current A
Odd harmonics	
3	2.30
5	1.14
7	0.77
9	0.40
11	0.33
13	0.21
$15 \leq h \leq 39$	$0.15 \times 15/h$
Even harmonics	
2	1.08
4	0.43
6	0.30
$8 \leq h \leq 40$	$0.23 \times 8/h$

For Class B equipment:

The harmonics of the input current shall not exceed the values given in Class A equipment multiplied by a factor of 1,5.

Limits for Class C equipment

Harmonics Order h	Maximum permissible harmonic current expressed as a percentage of the input current at the fundamental frequency %
Odd harmonics	
2	2
3	27 ^b
5	10
7	7
9	5
$11 \leq h \leq 39$ (odd harmonics only)	3

a For some Class C products, other emission limits apply (see 7.4).

b The limit is determined based on the assumption of modern lighting technologies having power factors of 0,90 or higher.

Limits for Class D equipment

Harmonics Order	Max. permissible harmonics current per watt	Max. permissible harmonics current
h	mA/W	A
3	3.4	2.30
5	1.9	1.14
7	1.0	0.77
9	0.5	0.40
11	0.35	0.33
13	0.30	0.21
15 ≤ h ≤ 39 (Odd harmonics only)	3.85/h	0.15×15/h

For the following categories of equipment limits are not specified in this edition of the standard.

Note: Equipment with a rated power of 75W or less, other than lighting equipment.

The E.U.T. is classified as follows:

Class A:

Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment ,equipment not specified in one of the three other classes.

Class B:

Portable tools; Arc welding equipment which is not professional equipment.

Class C:

Lighting equipment.

Class D:

Equipment having a specified power less than or equal to 600W of the following types: Personal computers and personal computer monitors and television receivers.

7.3.Test Procedure

- a. The EUT was placed on a Insulating support.
- b. Configure the EUT and support devices as per section 7.1.
- c. Turn on the EUT and all support devices, and make it run stably.
- d. Set the EUT to produce the maximum harmonic components under normal operating conditions for each successive harmonic component in turn.
- e. Set correspondent test program and measurement time of the test system to measure the current harmonics emanated from EUT, and then record the test data.

7.4.Test Results

PASS.

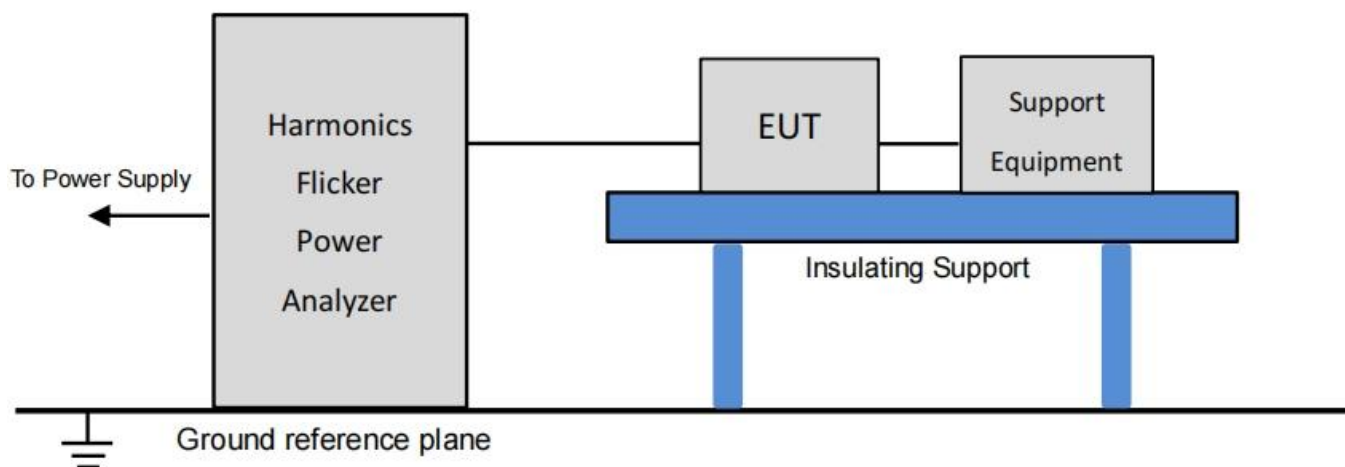
Please refer to the following pages of the worst case.

Test Data

Test duration (sec):150			Test Date:		2026-04-09
THC/Iref (%):	5.335	Limit (%): 23.0	PWHC/Iref (%):	3.438	PWHC Limit (%): 23.0
I - THD(%):	3.654		Test mode:	2	
V_RMS(Volts):	229.05		Frequency(Hz):	50	
I_RMS(A):	25.49		Power Factor:	0.998	
Power(Watts):	5826.81		Minimum Rsce:	33	
Harm#	Harms(filtered)(A)	Limit (A)	Ih/Iref%	Limit(Ih/Iref) %	Status
1	37.2259				
2	0.0278	2.0392	0.1091	8.0000	Pass
3	0.9380	5.5058	3.6797	21.6000	Pass
4	0.0130	1.0196	0.0508	4.0000	Pass
5	0.8058	2.7274	3.1613	10.7000	Pass
6	0.0076	0.6627	0.0300	2.6000	Pass
7	0.3157	1.8353	1.2384	7.2000	Pass
8	0.0116	0.5098	0.0455	2.0000	Pass
9	0.3245	0.9686	1.2731	3.8000	Pass
10	0.0109	0.4078	0.0426	1.6000	Pass
11	0.1537	0.7902	0.6031	3.1000	Pass
12	0.0087	0.3314	0.0342	1.3000	Pass
13	0.2309	0.5098	0.9057	2.0000	Pass
14	0.0107	N/A		N/A	N/A
15	0.1068	N/A		N/A	N/A
16	0.0108	N/A		N/A	N/A
17	0.0720	N/A		N/A	N/A
18	0.0061	N/A		N/A	N/A
19	0.0898	N/A		N/A	N/A
20	0.0068	N/A		N/A	N/A
21	0.0331	N/A		N/A	N/A
22	0.0075	N/A		N/A	N/A
23	0.0379	N/A		N/A	N/A
24	0.0070	N/A		N/A	N/A
25	0.0523	N/A		N/A	N/A
26	0.0059	N/A		N/A	N/A
27	0.0581	N/A		N/A	N/A
28	0.0055	N/A		N/A	N/A
29	0.0232	N/A		N/A	N/A
30	0.0059	N/A		N/A	N/A
31	0.0168	N/A		N/A	N/A
32	0.0052	N/A		N/A	N/A
33	0.0287	N/A		N/A	N/A
34	0.0041	N/A		N/A	N/A
35	0.0252	N/A		N/A	N/A
36	0.0039	N/A		N/A	N/A
37	0.0304	N/A		N/A	N/A
38	0.0047	N/A		N/A	N/A
39	0.0216	N/A		N/A	N/A
40	0.0034	N/A		N/A	N/A

8.VOLTAGE FLUCTUATIONS & FLICKER MEASUREMENT

8.1.Block Diagram of Test Setup



8.2.Test Limits

Test Item	Limit
P_{st} (Short-term flicker indicator.)	1.0
P_{lt} (Long-term flicker indicator.)	0.65
T-max(ms) (Maximum time that $d(t)$ exceeds 3.3%)	500
$d_{max}(\%)$ (Maximum relative voltage change.)	4
$d_c(\%)$ (Relative steady-state voltage change)	3.3

8.3.Test Procedure

- The EUT was placed on a Insulating support.
- Configure the EUT and support devices as per section 8.1.
- Turn on the EUT and all support devices, and make it run stably.
- Set the EUT to produce the most unfavorable sequence of voltage changes under normal operating conditions.
- Set correspondent test program and measurement time of the test system to measure the most unfavorable sequence of voltage changes from EUT, and then record the test data.

8.4.Test Results

PASS.

Please refer to the following pages of the worst case.

Test Data			
Test duration (sec): 600		Test mode: 2	
Test date: 2026-04-09			
V_RMS(Volts):	229.75	Frequency(Hz):	50
I_RMS(A):	25.36	Power Factor:	0.998
Power(Watts):	5814.81		
Result:	Measured value	Test Limit	Status
T-Max:	0.000	500.000	Pass
Highest dc (%):	0.210	3.300	Pass
Highest dmax (%):	0.410	4.000	Pass
Highest Pst (10 min. period):	0.070	1.000	Pass
Highest Plt (2 hr. period):	0.051	0.650	Pass

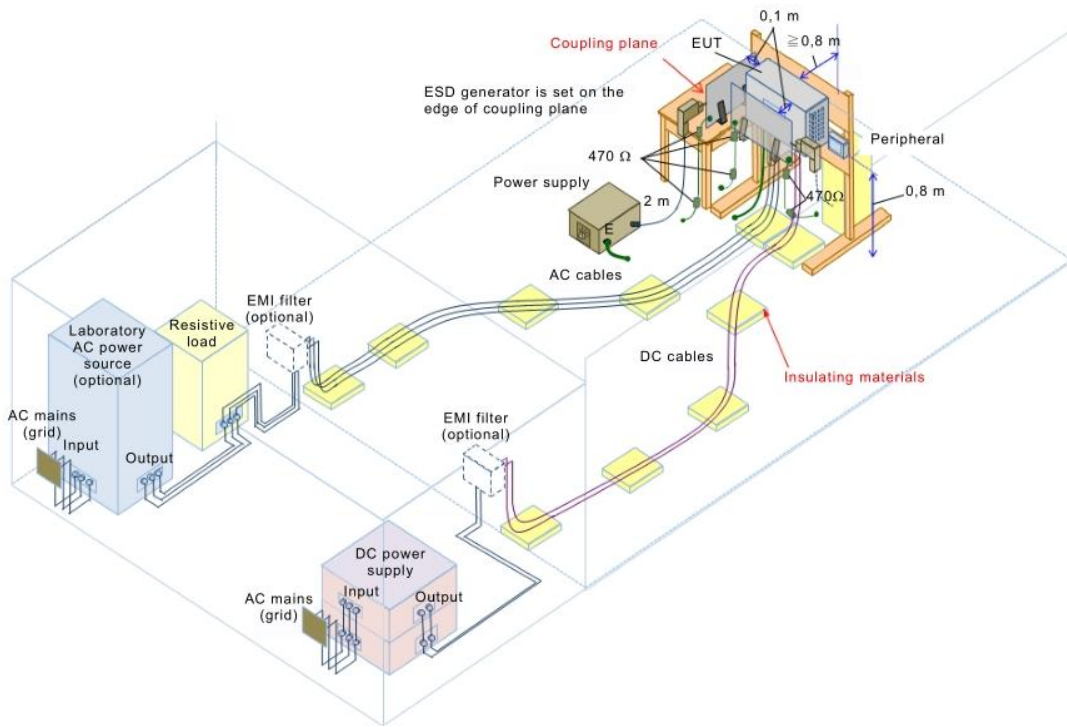
9.PERFORMANCE CRITERIA FOR IMMUNITY

The performance criteria are referred to the test standard: EN 62920

Item	Criterion A	Criterion B	Criterion C
Operating status	No noticeable change of the operating status. Operating as intended.	Noticeable changes of the operating characteristic. Self-recoverable	Shutdown, changes in operating status. Triggering of protective devices. Not self-recoverable
Power output	Power output permitted to vary only within $\pm 25\%$.	Power output permitted to temporarily vary outside $\pm 25\%$ Self-recoverable	Loss of power output. Not self-recoverable
External and internal indications and metering	No noticeable change of the operating status.	Changes only during test	Shutdown, triggering of protective devices. Not self-recoverable
Control signal to external devices	Undisturbed communication and data exchange to external devices	Temporarily disturbed communication, but no error reports of the internal or external devices which could cause shut-down	Errors in communication, loss of data and information. No loss of stored program, no loss of user program. Not self-recoverable

10.ELECTROSTATIC DISCHARGE TEST

10.1.Block Diagram of Test Setup



10.2.Test Standard and Severity Levels

a. Test Standard:

Product standard	EN 62920
Basic standard	IEC 61000-4-2
Performance criterion	B

b. Severity Levels:

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	±2	±2
2.	±4	±4
3.	±6	±8
4.	±8	±15
X	Special	Special

10.3. Test Procedure

Air Discharge:

Air discharges at slots and apertures and insulating surfaces. On those parts of the EUT where it is not possible to perform contact discharge testing, the equipment should be investigated to identify user accessible points where breakdown may occur. Such points are tested using the air discharge method. This investigation should be restricted to those are normally handled by the user. A minimum of 10 single air discharges shall be applied to the selected test point for each such area.

Contact Discharge:

Contact discharges to the conductive surfaces and coupling planes. The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 20 indirect discharges to the center of the front edge of the Horizontal Coupling Plane (HCP). The remaining three test points shall each receive at least 20 direct contact discharges. If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.

- a. The EUT was placed on a Insulating support 0.8m above ground.
- b. The EUT was located 0.1m minimum from all side of the HCP (dimensions 1.6m x0.8m).
- c. Configure the EUT and support devices as per section 10.1.
- d. The support units were located 30cm away from the EUT, but direct support unit was/were located at same location as EUT on the HCP and keep at a distance of 10cm with EUT.
- e. Turn on the EUT and all support devices, and make it run stably.
- f. The time interval between two successive single discharges was at least 1 second. Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
- g. Air discharges were applied with the round discharge tip of the discharge electrode approaching the EUT as fast as possible (without causing mechanical damage) to touch the EUT. After each discharge, the ESD generator was removed from the EUT and re-triggered for a new single discharge. The test was repeated until all discharges were complete.
- h. At least ten single discharges (in the most sensitive polarity) were applied at the front edge of each HCP opposite the center point of each unit of the EUT and 0.1 meters from the front of the EUT. The long axis of the discharge electrode was in the plane of the HCP and perpendicular to its front edge during the discharges.
- i. At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the Vertical Coupling Plane (VCP) in sufficiently different positions that the four faces of the EUT were completely illuminated. The VCP (dimensions 0.5m x 0.5m) was placed vertically to and 0.1 meters from the EUT.
- j. Repeat the above steps in each mode and record the test result.

10.4.Test Results

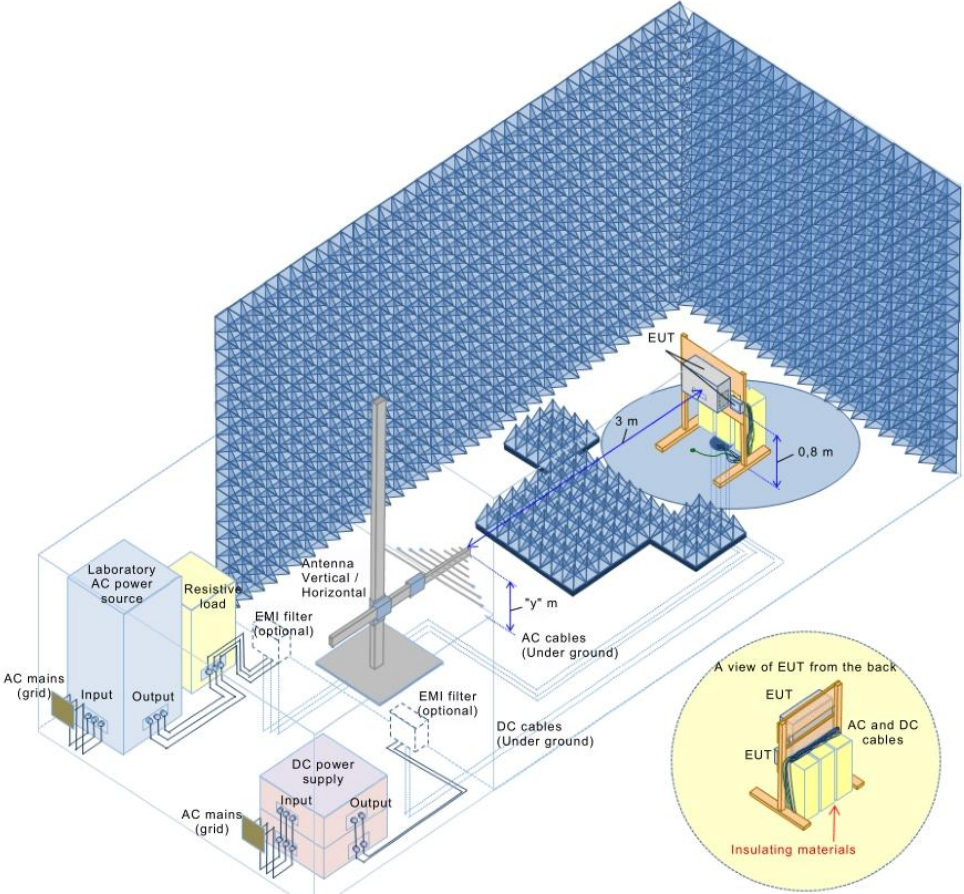
PASS.

Please refer to the following page.

Electrostatic Discharge Test Results			
Ambient Condition:	Temp.: 28.1℃	R.H.: 55.0%	Air Pressure : 101.1kPa
Test Specifications	Test level:	±4 KV for Contact Discharge ±8 KV for Air Discharge	
	Discharge impedance:	330ohm / 150Pf	
	No. of discharges:	10 times at each test point for each polarity at least	
	Polarity:	Positive / Negative	
	Discharge mode:	Single	
	Interval time of discharges:	≥1s	
Required Performance Criterion	B		
Test Mode	1-5		
	Test Point	Kind A-Air Discharge C-Contact Discharge	Result (Performance Criterion)
	Display Screen	A	A
	Switch (PV)	A	A
	Key	A	A
	Indicator Light	A	A
	Communication Port (com port/WIFI)	A	A
	Button (on/off)	C	A
	Metal case (Front, up, down, left and right)	C	A
	Screw	C	A
	Indirect Discharge (VCP)	C	A
Note: No performance degradation or other exceptions occurred during and after the test.			
Test Date: 2026-04-09			

11.RADIO-FREQUENCY ELECTROMAGNETIC FIELD TEST

11.1.Block Diagram of Test Setup



11.2. Test Standard and Severity Levels

a. Test Standard

Product standard	EN 62920
Basic standard	IEC 61000-4-3
Performance criterion	A

b. Severity Levels

Level	Field Strength (V/m)
1.	1
2.	3
3.	10
4.	30
X	Special

11.3. Test Procedure

- The testing was performed in a fully anechoic chamber.
- The EUT and necessary support devices were placed on a turn table which is 0.8 meter above ground.
- EUT was set 3 meter away from the transmitting antenna which is mounted on an antenna tower.
- Configure the EUT and support devices as per section 11.1.
- Turn on the EUT and all support devices, and make it run stably.
- Set horizontal and vertical polarization of the antenna to test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.
- Repeat the above steps in each mode and record the test result.

11.4. Test Results

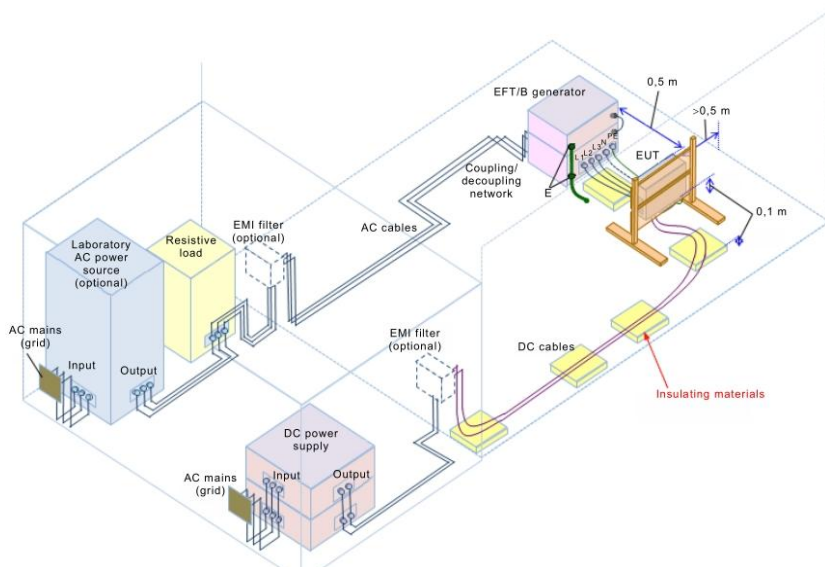
PASS.

Please refer to the following page.

Radio-Frequency Electromagnetic Field Test Results				
Ambient Condition	Temp.: 27.5°C	R.H.:54.9%	Air Pressure: 101.2kPa	
Test Specifications	Fielded Strength:	3V/m, 10V/m		
	Modulation:	1kHz sine wave, 80%AM		
	Frequency Size:	1% of preceding frequency value		
	Dwell Time:	1.0s		
	Mode:	Swept test		
Required Performance Criterion	A			
Test mode	2-5			
Frequency (MHz)	Level (V/m)	Antenna polarity	Side	Result (Performance Criterion)
80-1000	10	Horizontal Vertical	Front	A
			Left	A
			Right	A
			Back	A
1400-6000	3	Horizontal Vertical	Front	A
			Left	A
			Right	A
			Back	A
Note: No performance degradation or other exceptions occurred during and after the test.				
Test Date: 2026-04-16				

12.FAST TRANSIENTS TEST

12.1.Block Diagram of Test Setup



12.2.Test Standard and Severity Levels

a. Test Standard

Product standard	EN 62920
Basic standard	IEC 61000-4-4
Performance criterion	B

b. Severity level

Open circuit output test voltage and repetition rate of the impulses				
Level	Power ports, earth port (PE)		Signal data and control ports	
	Voltage peak kV	Repetition frequency kHz	Voltage peak kV	Repetition frequency kHz
1.	0.5	5 or 100	0.25	5 or 100
2.	1.0	5 or 100	0.5	5 or 100
3.	2.0	5 or 100	1.0	5 or 100
4.	4.0	5 or 100	2.0	5 or 100
X	Special	Special	Special	Special

Note 1: The use of 5 kHz repetition rates is traditional, however, 100 kHz is closer to reality. Product committees should determine which frequencies are relevant for specific products or product types.

Note 2: With some products, there may be no clear distinction between power ports and signal ports, in which case it is up to product committees to make this determination for test purposes.

Note 3: "X" can be any level, above, below or in between the others. The level shall be specified in the dedicated equipment specification.

12.3. Test Procedure

- a. The EUT was placed on the insulating support 0.1m above the reference ground plane.
- b. Configure the EUT and support devices as per section 12.1.
- c. Turn on the EUT and all support devices, and make it run stably.
- d. For input and output AC power port of the EUT, the EUT was connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. The coaxial output of the EFT generator to the terminals on the EUT should not exceed 0.5 meter. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 minutes.
- e. For signal ports of the EUT, the EUT was connected to the power mains, and the signal line through a coupling device which couples the EUT interference signal to signal line. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 minutes.
- f. Repeat the above steps in each mode and record the test result.

12.4. Test Results

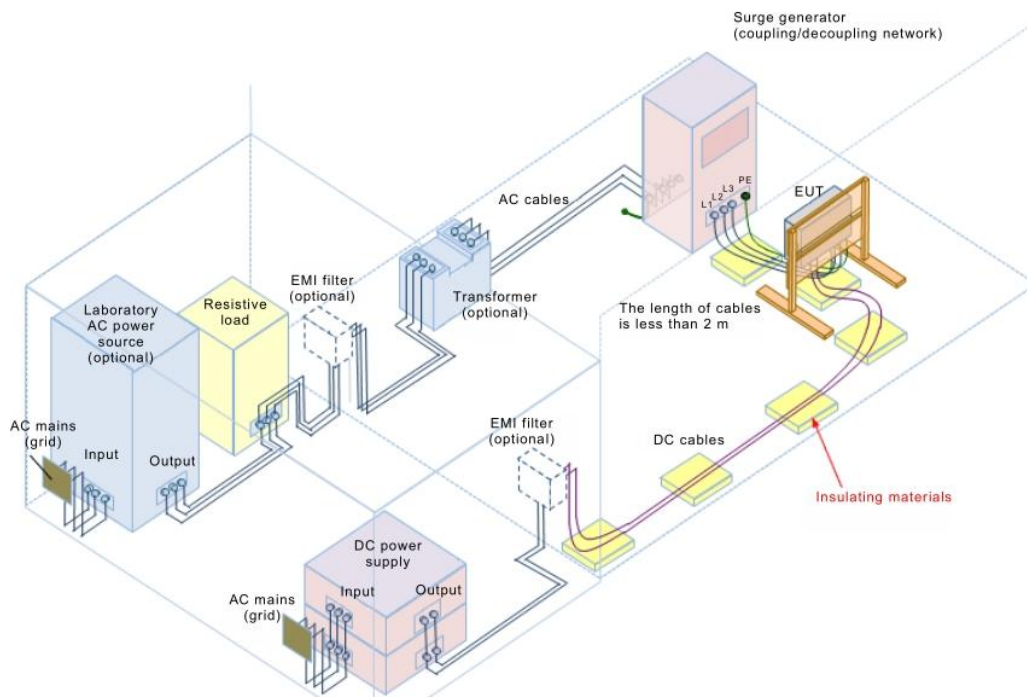
PASS.

Please refer to the following page.

Fast transients test Results			
Ambient Condition	Temp.: 27.5°C	R.H.:52.0%	Air Pressure: 101.1kPa
Test Specifications	Test Level:	±2.0 kV for AC power port ±1.0 kV for PV power/Battery port	
	Repetition Frequency:	5kHz	
	Duration:	15ms	
	Period:	300ms	
	Impulse wave shape:	5/50ns (Tr/Th)	
	Test Duration:	2min	
	Required Performance Criterion	B	
Test mode	2-5		
Coupling mode and port	<input checked="" type="checkbox"/> AC Power <input checked="" type="checkbox"/> DC port <input type="checkbox"/> Signal line		
	<input checked="" type="checkbox"/> Direct <input type="checkbox"/> Capacitive		
Test Line	Test Voltage	Result (Performance Criterion)	
AC Input port	±2.0kV	A	
AC Output port	±2.0kV	A	
PV Input Port	±1.0kV	A	
Battery Port	±1.0kV	A	
Note : No performance degradation or other exceptions occurred during and after the test.			
Test Date: 2026-04-09			

13.SURGE TEST

13.1.Block Diagram of Test Setup



13.2.Test Standard and Severity Levels

a. Test Standard

Product standard	EN 62920
Basic standard	IEC 61000-4-5
Performance criterion	B

b. Severity level

Level	Open-Circuit Test Voltage KV
1.	0.5
2.	1.0
3.	2.0
4.	4.0
*	Special

13.3. Test Procedure

- a. The EUT was placed on the wooden table 0.1m above the ground.
- b. Configure the EUT and support devices as per section 13.1.
- c. Turn on the EUT and all support devices, and make it run stably.
- d. The surge is applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks was shorter than 2 meters in length.
- e. For test applied to unshielded un-symmetrically operated interconnection lines of EUT, the surge was applied to the lines via the capacitive coupling. The coupling / decoupling networks didn't influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks was shorter than 2 meters in length.
- f. For test applied to unshielded symmetrically operated interconnection / telecommunication lines of EUT, the surge was applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrester were not specified. The interconnection line between the EUT and the coupling/decoupling networks was shorter than 2 meters in length.
- g. Five positive and five negative (polarity) pulses at specified phase angles with a 1min repetition rate are conducted during test.
- h. Repeat the above steps in each mode and record the test result.

13.4. Test Results

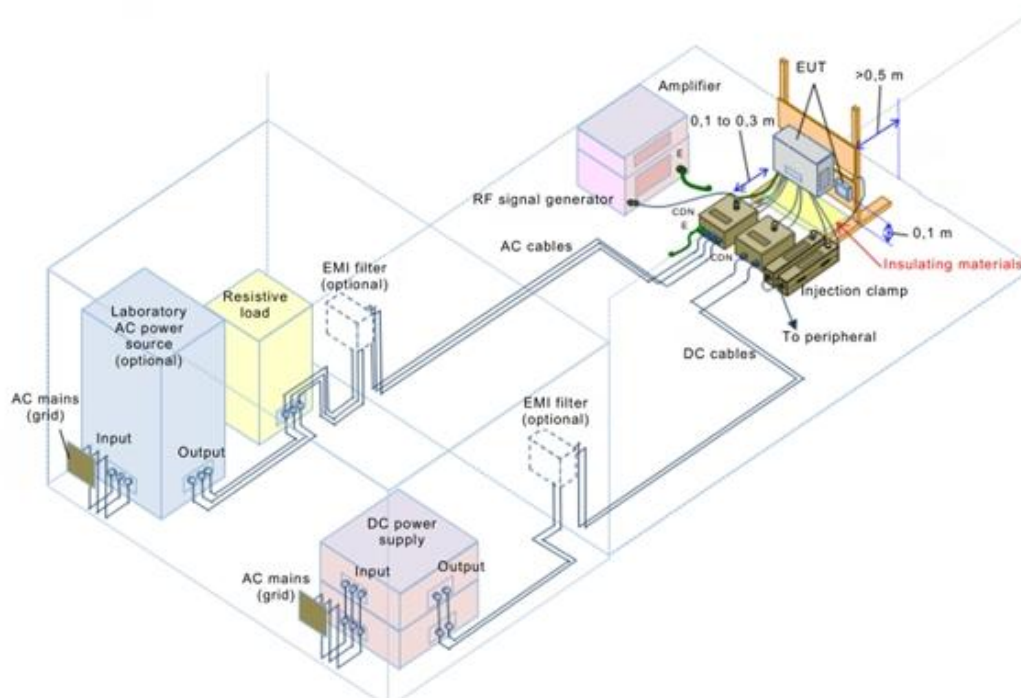
PASS.

Please refer to the following page.

Surge Test Results				
Ambient Condition		Temp.: 28.1°C	R.H.:55.0%	Air Pressure: 101.1kPa
Test Specifications		Wave-shape:	1.2/50 us (Tr/Th) / 8/20 us (Tr/Th) for power port	
		Test Level:	±1.0kV for AC power port (Line-Neutral) ±2.0kV for AC power port (Line -Earth) ±2.0kV for AC power port (Neutral -Earth) ±0.5kV for PV Power port (Positive-Negative) ±1.0kV for PV Power port (Positive-Earth) ±1.0kV for PV Power port (Negative-Earth)	
		Phase angle:	0°, 90°, 180° and 270°	
		Polarity:	Positive / Negative	
		NO. of pulse:	5 positive / 5 negative	
		Pulse repetition rate:	1 time per minute / maximum	
		Generator source impedance:	2 ohm / power supply network 12 ohm / power supply network to ground	
Required Performance Criterion		B		
Test mode		1-5		
Test Line		Phase Angle	Test Voltage	Result (Performance Criterion)
AC Input Port	Line-Neutral	0°, 90°, 180°, 270°	±1.0kV	A
	Neutral-Earth	0°, 90°, 180°, 270°	±2.0kV	A
	Line-Earth	0°, 90°, 180°, 270°	±2.0kV	A
AC Output Port	Line-Neutral	0°, 90°, 180°, 270°	±1.0kV	A
	Neutral-Earth	0°, 90°, 180°, 270°	±2.0kV	A
	Line-Earth	0°, 90°, 180°, 270°	±2.0kV	A
PV Input Port	Positive-Negative	---	±0.5kV	A
	Positive-Earth	---	±1.0kV	A
	Negative-Earth	---	±1.0kV	A
Note : No performance degradation or other exceptions occurred during and after the test.				
Test Date: 2026-05-07				

14.RADIO-FREQUENCY COMMON MODE TEST

14.1.Block Diagram of Test Setup



14.2.Test Standard and Severity Levels

a. Test Standard

Product standard	EN 62920
Basic standard	IEC 61000-4-6
Performance criterion	A

b. Severity level

Level	Field Strength (V)
1.	1
2.	3
3.	10
X	Special

14.3. Test Procedure

- a. The EUT was placed on the insulating support 0.1m above the ground reference plane. CDN (coupling and decoupling device) or EM clamp is placed on the ground plane about 0.3m from EUT. Cables between CDN or EM clamp and EUT are as short as possible, and their height above the ground reference plane shall be greater than 30mm (where possible).
- b. Configure the EUT and support devices as per section 14.1.
- c. Turn on the EUT and all support devices, and make it run stably.
- d. The disturbance signal described below is injected to EUT through CDN or EM clamp.
- e. The frequency range is swept from 150 KHz to 80 MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave. The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- f. Repeat the above steps in each mode and record the test result.

14.4. Test Results

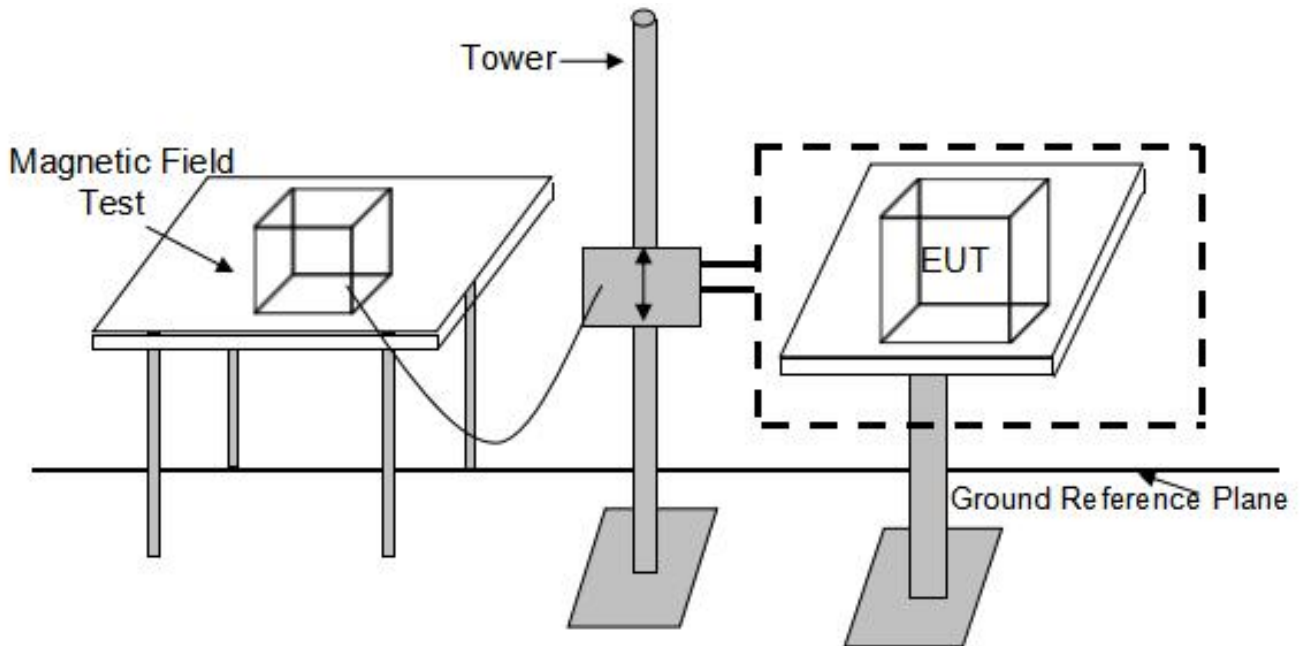
PASS.

please refer to the following page.

Radio-Frequency Common Mode Test Results			
Ambient Condition	Temp.: 26.8℃	R.H.: 55.2%	Air Pressure:101.2kPa
Test Specifications	Test Level:	10V (r.m.s)	
	Modulation:	1kHz sine wave, 80%AM	
	Step Size:	1% of preceding frequency value	
	Dwell Time:	1s	
	Mode:	Swept test	
Required Performance Criterion	A		
Test mode	2-5		
Test Port	Frequency (MHz)	Level(V)	Result (Performance Criterion)
AC Input Port	0.15~80	10	A
AC Output Port	0.15~80	10	A
PV Input Port	0.15~80	10	A
Battery Port	0.15~80	10	A
Note : No performance degradation or other exceptions occurred during and after the test.			
Test Date: 2026-04-16			

15.POWER-FREQUENCY MAGNETIC FIELD TEST

15.1.Block Diagram of Test Setup



15.2.Test Standard and Severity Levels

a. Test Standard

Product standard	EN IEC 61000-6-2
Basic standard	IEC 61000-4-8
Performance criterion	A

b. Severity level

Level	Magnetic Field Strength A/m
1.	1
2.	3
3.	10
4.	30
5.	100
X	Special

15.3. Test Procedure

- a. The EUT was placed on the middle of an induction coil(1*1m), under which is a 0.8m-thick insulating support.
- b. Configure the EUT and support devices as per section 15.1.
- c. All cables of the EUT were exposed to the magnetic field for 1m of their length.
- d. X, Y and Z polarization of the induction coil are set on test, so that each side of the E.U.T. is affected by the magnetic field. If not possible as the EUT size, change the position of the EUT is permitted.
- e. Repeat the above steps in each mode and record the test result.

15.4. Test Results

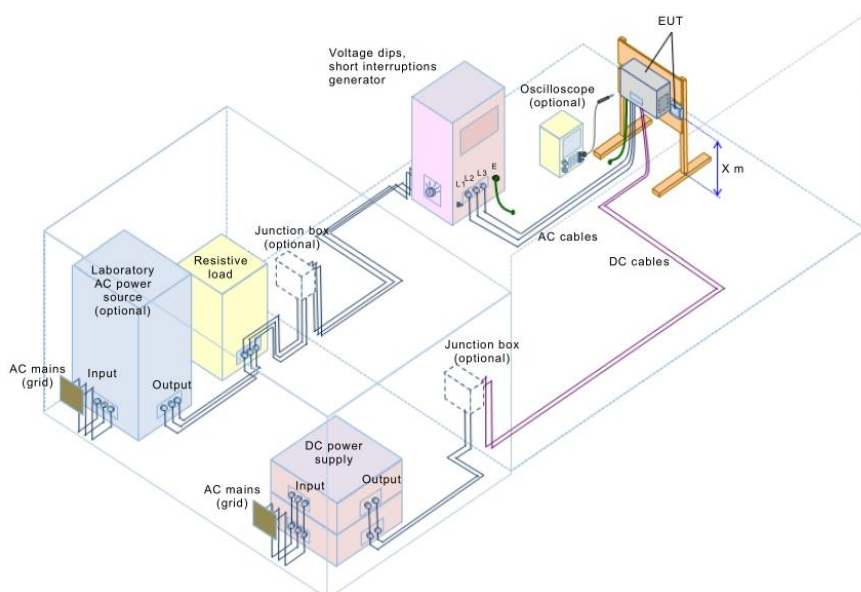
PASS.

Please refer to the following page.

Power-Frequency Magnetic Field Immunity Test Results			
Ambient Condition	Temp.: 27.3°C	R.H.: 50.0%	Air Pressure:101.1kPa
Test Specifications	Test Level:	30A/m	
	Time:	300s	
Test mode	2-5		
Coil Orientation	Level (A/m)	Testing Duration(s)	Result (Performance Criterion)
X	30	300	A
Y	30	300	A
Z	30	300	A
Note : No performance degradation or other exceptions occurred during and after the test.			
Test Date: 2026-04-09			

16.VOLTAGE DIPS AND INTERRUPTIONS TEST

16.1.Block Diagram of Test Setup



16.2.Test Standard and Severity Levels

a. Test Standard

Product standard	EN 62920
Basic standard	IEC 61000-4-34
Performance criterion	B&C

b. Severity level

Class	Test level and durations for voltage dips (t_s)(50Hz/60Hz)			
Class 1	Case-by-case according to the equipment requirements			
Class 2	0 % during 1 cycle	70 % during 25/30 ^b cycles		
Class 3	0 % during 1 cycle	40 % ^c during 10/12 ^b cycles	70 % during 25/30 ^b cycles	80 % during 250/300 ^b cycles
Class X ^a	X	X	X	X

Note:

- To be defined by product committee. For equipment connected directly or indirectly to the public network, the levels must not be less severe than Class 2.
- "25/30 cycles" means "25 cycles for 50 Hz test" and "30 cycles for 60 Hz test", "10/12 cycles" means "10 cycles for 50 Hz test" and "12 cycles for 60 Hz test" and "250/300 cycles" means "250 cycles for 50 Hz test" and "300 cycles for 60 Hz test".
- May be replaced by product committee with a test level of 50 % for equipment that is intended primarily for 200 V or 208V nominal operation.

Class	Test level and durations for short interruptions (t_s) (50 Hz/60 Hz)
Class 1	Case-by-case according to the equipment requirements
Class 2	0 % during 250/300 ^b cycles
Class 3	0 % during 250/300 ^b cycles
Class X ^a	X

Note: a. To be defined by product committee. For equipment connected directly or indirectly to the public network, the levels must not be less severe than Class 2.
b. "250/300 cycles" means "250 cycles for 50 Hz test" and "300 cycles for 60 Hz test".

16.3. Test Procedure

- The EUT was placed on the wooded table.
- Configure the EUT and support devices as per section 16.1.
- Setting the parameter of tests and then perform the test software of test simulator.
- Conditions changes to occur at 0 and 180 degree crossover point of the voltage waveform.
- Repeat the above steps in each mode and record the test result.

16.4. Test Results

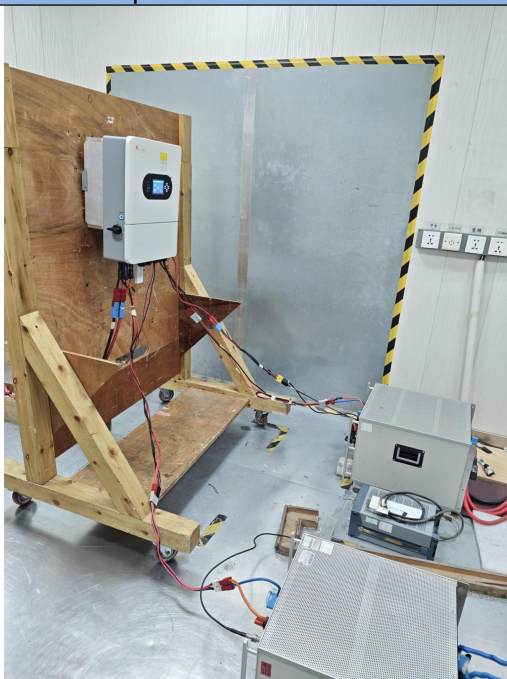
PASS.

Please refer to the following page.

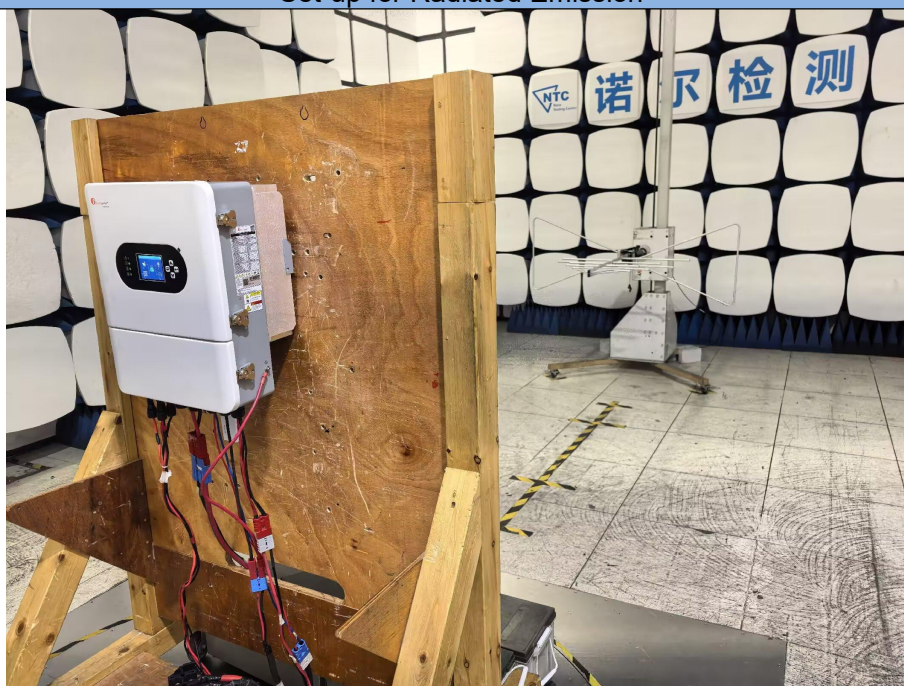
Voltage Dips and Interruptions Test Results			
Ambient Condition:	Temp.: 26.8°C	R.H.: 51.6%	Air Pressure: 102.4kPa
Test Specifications:	Residual voltage:	0%, 0%, 70%, 0%	
	Duration (periods):	<input type="checkbox"/> 0.5 for 50/60Hz <input checked="" type="checkbox"/> 10 for 50Hz <input checked="" type="checkbox"/> 25 for 50Hz <input checked="" type="checkbox"/> 250 for 50Hz	<input checked="" type="checkbox"/> 1 for 50/60Hz <input checked="" type="checkbox"/> 12 for 60Hz <input checked="" type="checkbox"/> 30 for 60Hz <input checked="" type="checkbox"/> 300 for 60Hz
	Phase angle:	0° and 180°	
	Interval between tests:	10s	
	NO. of tests:	3 times	
Required Performance Criterion	B for voltage dips C for voltage dips and voltage interruptions		
Test mode:	2, 4		
Test Level (% Residual voltage) (Input)	Duration (periods)		Result (Performance Criterion)
	50Hz	60Hz	
0	1P	1P	B ¹
40	10P	12P	B ¹
70	25P	30P	B ²
0	250P	300P	B ¹
Note: 1. During the test, The prototype switches to the inverter mode/ Solar Charger Mode, and automatically returns to normal operation after the test. 2. During the test, The output voltage of the EUT temporarily decreasing during the test, and it can returns to normal operation automatically after the test.			
Test Date: 2026-04-09			

APPENDIX I - PHOTOS OF TEST SET-UP

Set-up for Conducted Emission



Set-up for Radiated Emission



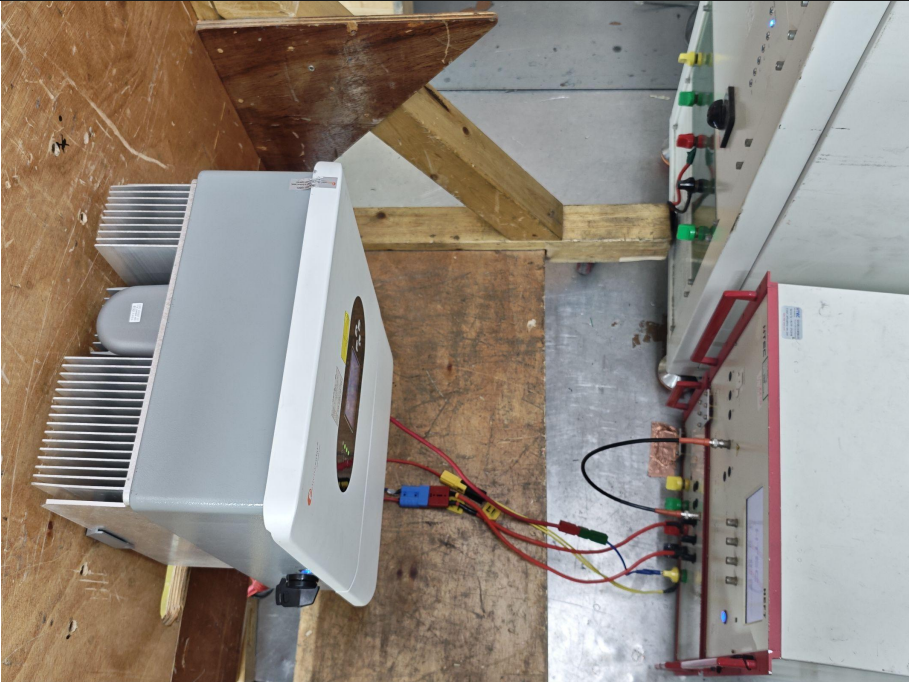
Set-up for Harmonic Current/Flicker



Set-up for Electrostatic Discharge Immunity



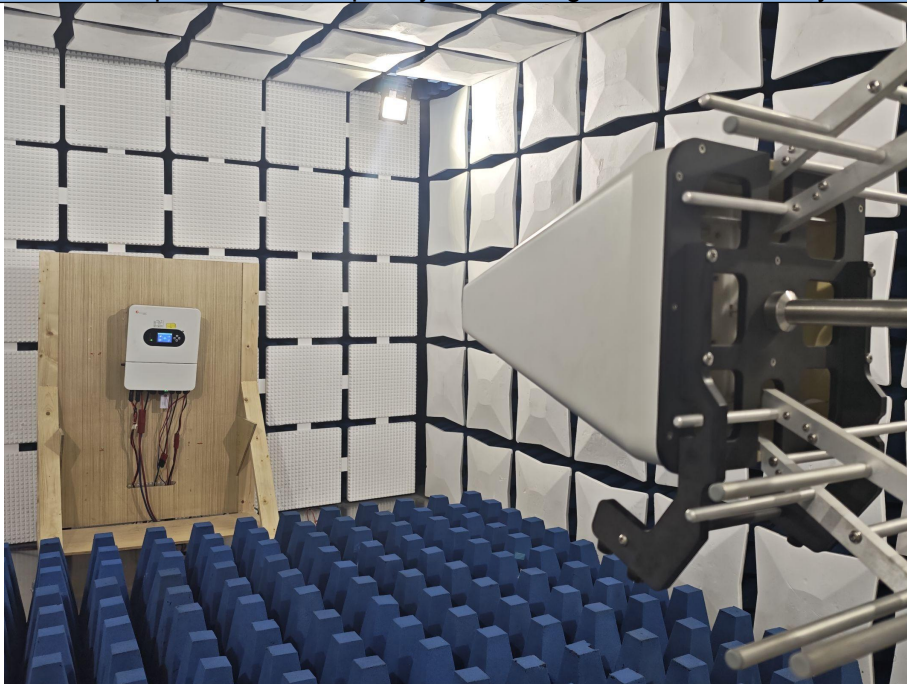
Set-up for Fast Transients Immunity



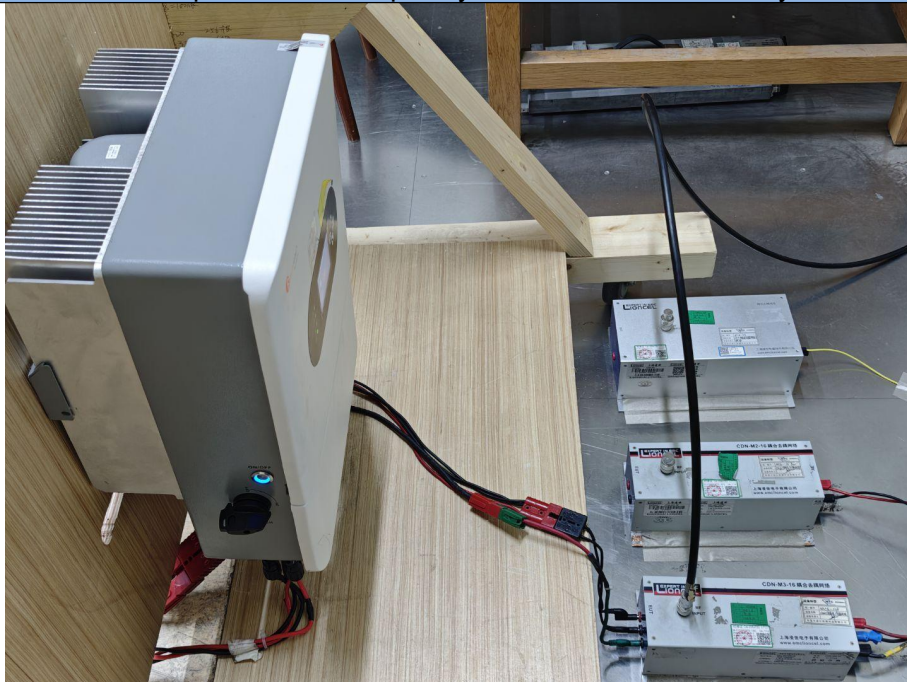
Set-up for Surge Immunity



Set-up for Radio-Frequency Electromagnetic Field Immunity



Set-up for Radio-Frequency Common Mode Immunity



Set-up for Power-Frequency Magnetic Field Immunity



Set-up for Voltage Dips and Interruptions Immunity



APPENDIX II - PHOTOS OF E.U.T

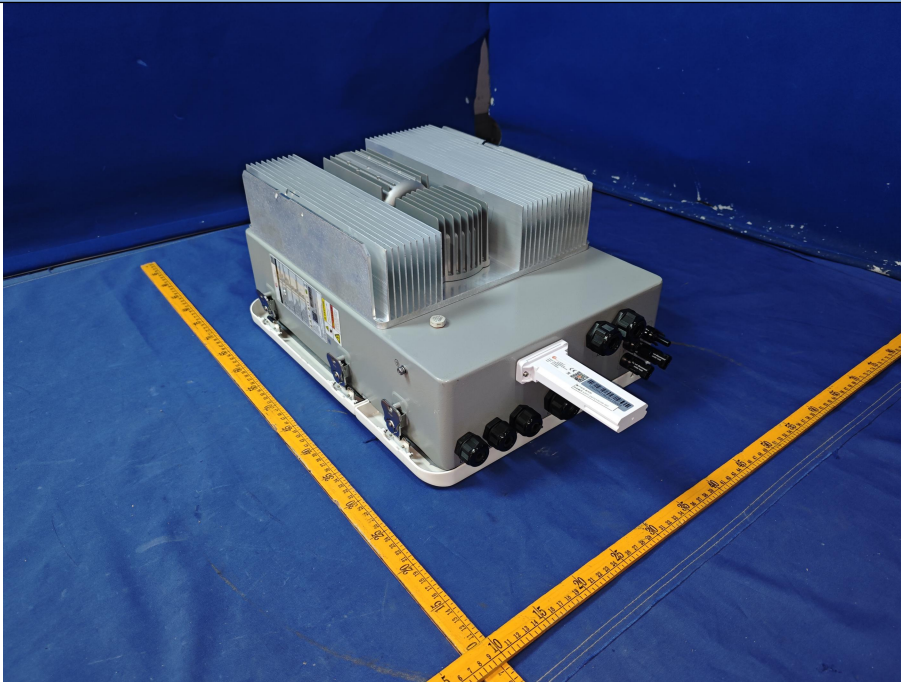
Over View -1



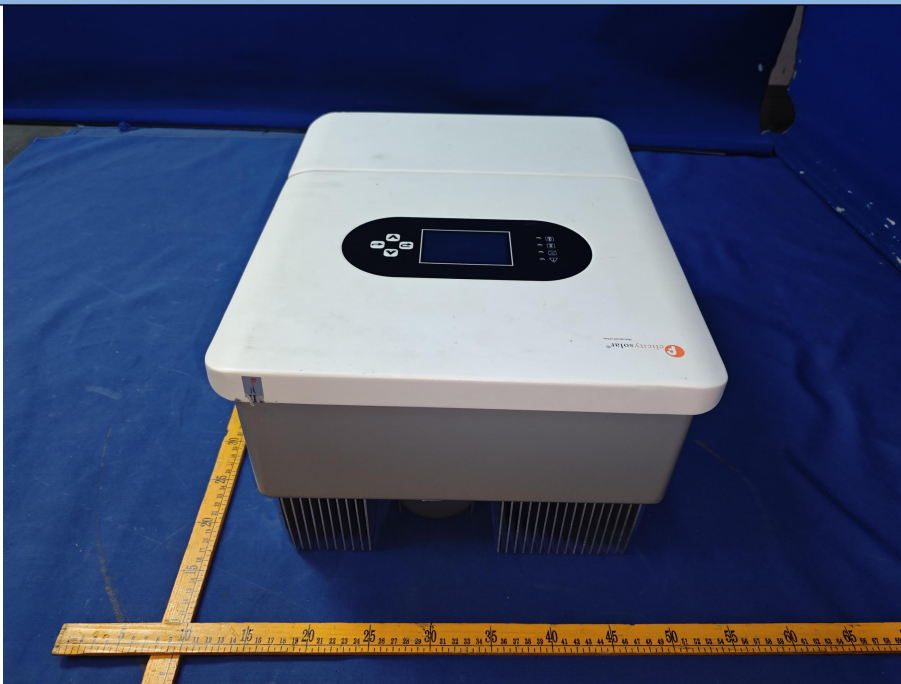
Over View -2



Over View -3



Over View -4



Over View -5



Over View -6



--- End of the report ---