



TEST REPORT

Applicant Name..... : Huizhou Aokailai Energy Technology Co., Ltd
Address..... : 5th span, left side, 7th floor, A2, Rongda Science and Technology Park, 204 County Road, Jinglong Village Committee, Zhenlong Town, Huiyang District, Huizhou City
Manufacturer Name..... : Huizhou Aokailai Energy Technology Co., Ltd
Address..... : 5th span, left side, 7th floor, A2, Rongda Science and Technology Park, 204 County Road, Jinglong Village Committee, Zhenlong Town, Huiyang District, Huizhou City
Product..... : Lithium iron phosphate battery pack
Model(s)..... : 24V80Ah
Additional Model(s)..... : 25.6V80Ah
Trademark..... : /
Model Difference..... : 24V80Ah is the test model, while other models are derivative models. These models are the same on the circuit, only with different model names. Therefore, the test data of 24V80Ah can represent the remaining models.
Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.
Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Date of Receipt..... : July 7, 2026
Date of Test(s)..... : July 7, 2026 - July 15, 2026
Date of Issue..... : July 15, 2026
Test Requested..... : Select test(s) as requested by the client.
Test Standard(s)..... : EN IEC 61000-6-3:2021
EN IEC 61000-6-1:2019
EN IEC 61000-3-2:2019 + A1:2021 + A2:2024
EN 61000-3-3:2013 + A1:2019 + A2:2021

In the configuration tested, the EUT complied with the standards specified above.

Prepared by:

Eric Jiang

Eric Jiang/ Engineer

Reviewed by:

Baret Wu

Baret Wu/ Director



Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.



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1. Test Summary

Emission			
Requirement - Test	Test Method	Result	
Conducted Emission	EN IEC 61000-6-3:2021	N/A	
Radiated Emission	EN IEC 61000-6-3:2021	PASS	
Immunity			
Requirement - Test	Test Method	Performance criteria	Result
Electrostatic discharges	EN 61000-4-2:2009	B	PASS
Radio-frequency electromagnetic field	EN IEC 61000-4-3:2020	A	PASS
Fast transients	EN 61000-4-4:2012	B	N/A
Surges	EN 61000-4-5:2014 + A1:2017	B	N/A
Radio-frequency common mode	EN IEC 61000-4-6:2023	A	N/A
Power frequency magnetic field	EN 61000-4-8:2010	A	N/A
Voltage Dips and Voltage interruptions	EN IEC 61000-4-11:2020	B &B & C & C	N/A

Requirement - Test	Test Method	Limit	Result
Harmonic current emissions	EN IEC 61000-3-2:2019 + A1:2021 + A2:2024	Class A	N/A
Voltage changes, voltage fluctuations and flicker	EN 61000-3-3: 2013 + A1:2019 + A2:2021	Clause 5	N/A

Remark: N/A is abbreviation for Not Applicable.

2. General Information

2.1. Description of EUT

Product:	Lithium iron phosphate battery pack
Model Name:	24V80Ah
Rated Power Supply:	Input: 25.6 V --- 80 Ah Output: 24 V --- 80 Ah
Normal Testing Voltage:	25.6 V --- , 24 V ---
DC Line	/
I/O Ports	Refer to User Manual
Highest Frequency Generated	Below 108 MHz

Note:

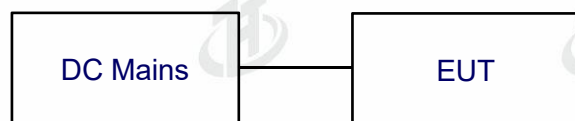
1) Other Accessory Device List and Details

Description	Manufacturer	Model	Note
Cement Resistor	RA	10000 W 0.3RJ	AE
Cement Resistor	RA	10000 W 0.6RJ	AE

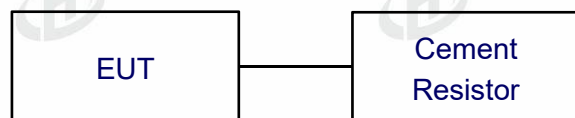
2) The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.2. Block diagram of EUT configuration

Mode 1



Mode 2 & Mode 3



**2.3. Test Mode**

Pretest mode	Mode 1: Charging mode Mode 2: Discharging mode(24 V $\Rightarrow$ 80 Ah) Mode 3: Discharging mode(24 V $\Rightarrow$ 40 Ah)		
Worst-case Test mode	Conducted Emission		N/A
	Radiated Emission	Below 1 GHz	Mode 2
		Above 1 GHz	N/A
	Harmonic current emissions		N/A
	Voltage changes, voltage fluctuations and flicker		N/A
	Electrostatic discharges		Mode 1, Mode 2, Mode 3
	Radio-frequency electromagnetic fields		Mode 1, Mode 2, Mode 3
	Fast transients		N/A
	Surges		N/A
	Injected currents		N/A
	Power frequency magnetic field		N/A
	Voltage dips and short interruptions		N/A

* Only the worst-case data is represented in the report.

2.4. Test Site Environment

Test Item	Required		Actual
Radiated Emission	Temperature (°C)	15-35	24.6
	Humidity (%RH)	25-75	54.0
	Barometric pressure (mbar)	860-1060	1014
Electrostatic discharges	Temperature (°C)	15-35	24.2
	Humidity (%RH)	30-60	53.2
	Barometric pressure (mbar)	860-1060	1014
Radio-frequency electromagnetic fields	Temperature (°C)	15-35	24.2
	Humidity (%RH)	25-75	53.8
	Barometric pressure (mbar)	860-1060	1014



3. Facilities

3.1. Test Facility and Test Instrument Used

Test site : Guangdong Zhonghan Testing Technology Co., Ltd.

Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Radiated emissions Test (966 chamber)

Equipment	Manufacturer	Model	Last Cal.	Next Cal.
Receiver	R&S	ESCI	Apr. 24, 2026	Apr. 23, 2027
Amplifier	Schwarzbeck	BBV 9743 B	Apr. 24, 2026	Apr. 23, 2027
Amplifier	Schwarzbeck	BBV 9718 B	May 8, 2026	May 7, 2027
Bilog Antenna	Schwarzbeck	VULB9162	Apr. 25, 2026	Apr. 24, 2027
Horn Antenna	Schwarzbeck	BBHA9120D	Apr. 25, 2026	Apr. 24, 2027

Electrostatic discharge immunity Test

Equipment	Manufacturer	Model	Last Cal.	Next Cal.
ESD TEST Generator	HTEC	HESD16	Sept. 23, 2025	Sept. 22, 2026

Continuous RF electromagnetic field disturbances

Equipment	Manufacturer	Model	Last Cal.	Next Cal.
Antenna	Schwarzbeck	STLP 9129	Apr. 24, 2026	Apr. 23, 2027
Power amplifier	HTEC	HPA 0860	Apr. 24, 2026	Apr. 23, 2027
Field strength probe	Frankonia	EFS.10	Apr. 24, 2026	Apr. 23, 2027
Signal generator	Keysight	N5171B	Apr. 24, 2026	Apr. 23, 2027



3.2. Testing software

Project	Software name	Edition
Radiated Emission	EZ-EMC	FA-03A2 RE+

3.3. Measurement uncertainty

Where relevant, the following measurement 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	Value (dB)
Conducted Emission (150kHz-30MHz)	0.92
Radiated Emission(30MHz~1GHz)	5.10
Radiated Emission(1GHz~6GHz)	3.90

Decision Rule

- ☒ Uncertainty is not included
☐ Uncertainty is included

4. Emission

4.1. Conducted Emission

4.1.1. Limit

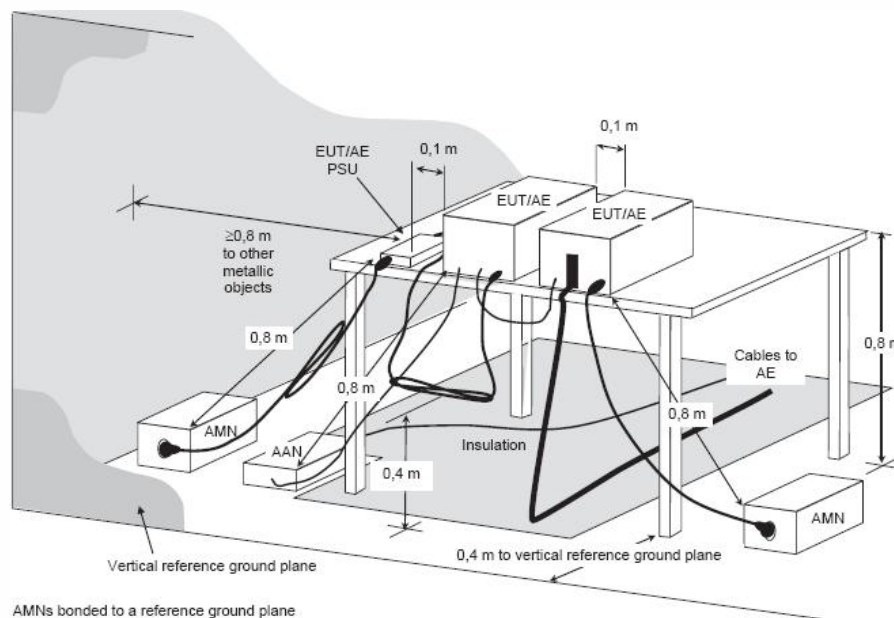
A.C. Mains Conducted Interference Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2. Test setup





4.1.3. Test procedure

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The test results of conducted emissions at mains ports are recorded of six worst margins for quasi-peak(mandatory) [and average (if necessary)] values against the limits at frequencies of interest unless the margin is 20 dB or greater.
Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.1.4. Test results

N/A

This product is powered by DC and is not applicable to this project.



4.2. Radiated emissions

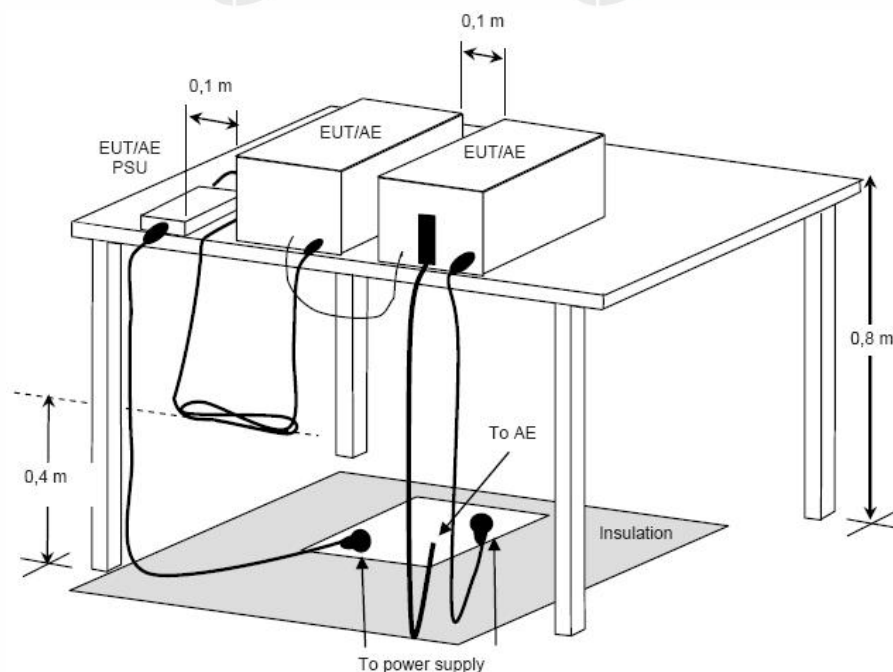
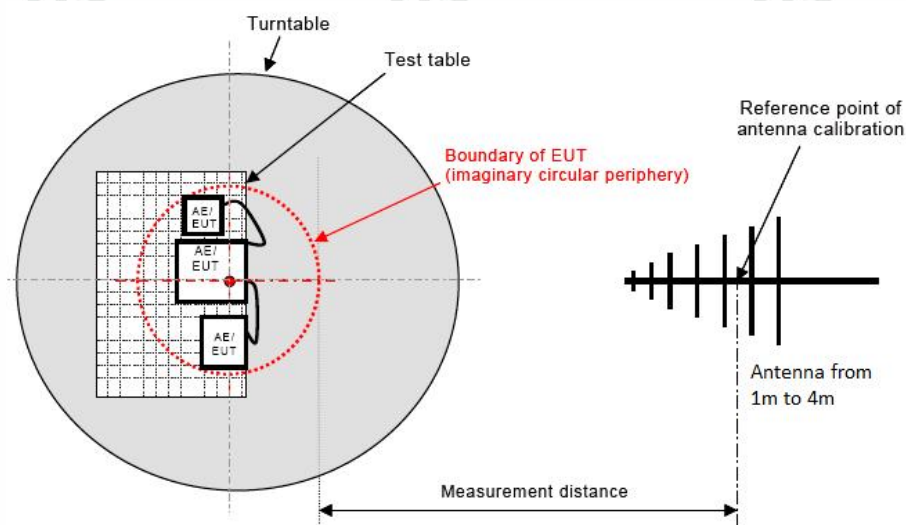
4.2.1. Limit

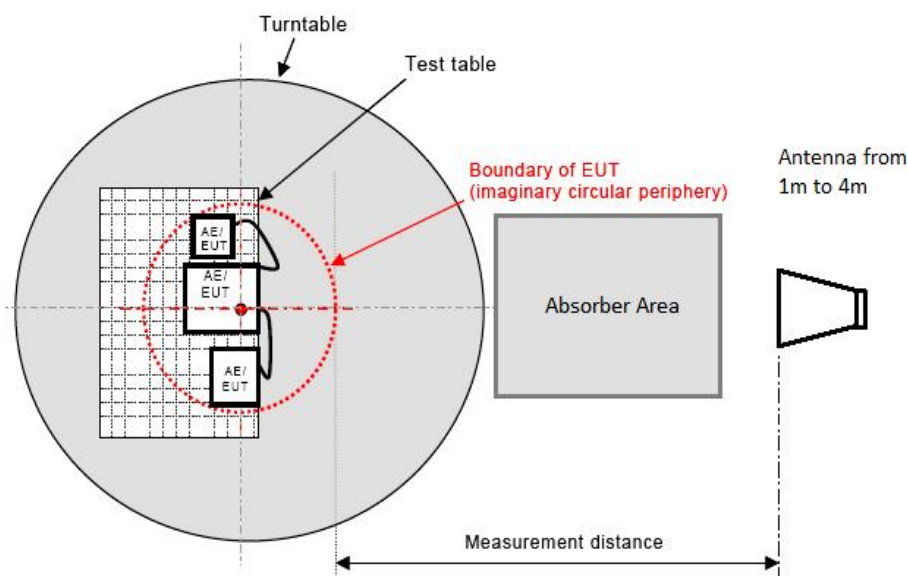
Frequency (MHz)	dBuV/m (Distance 3m)
30 ~ 230	40
230 ~ 1000	47

Note: The lower limit shall apply at the transition frequencies.

4.2.2. Block diagram of test setup

Measurement distance





4.2.3. Test procedure

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

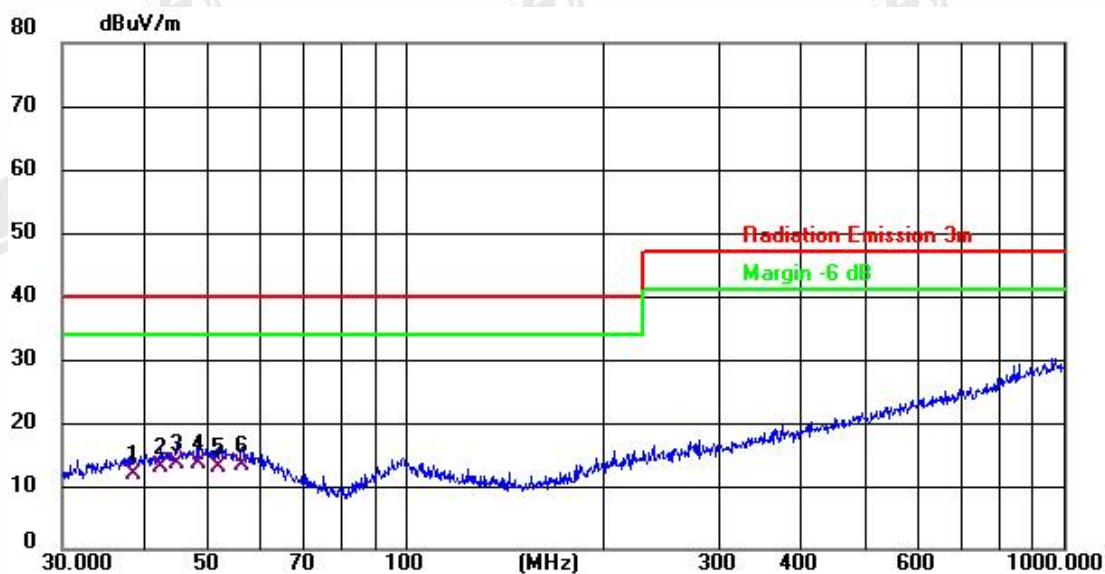
4.2.4. Test results

PASS

Please refer to pages 12 - 13 for data.



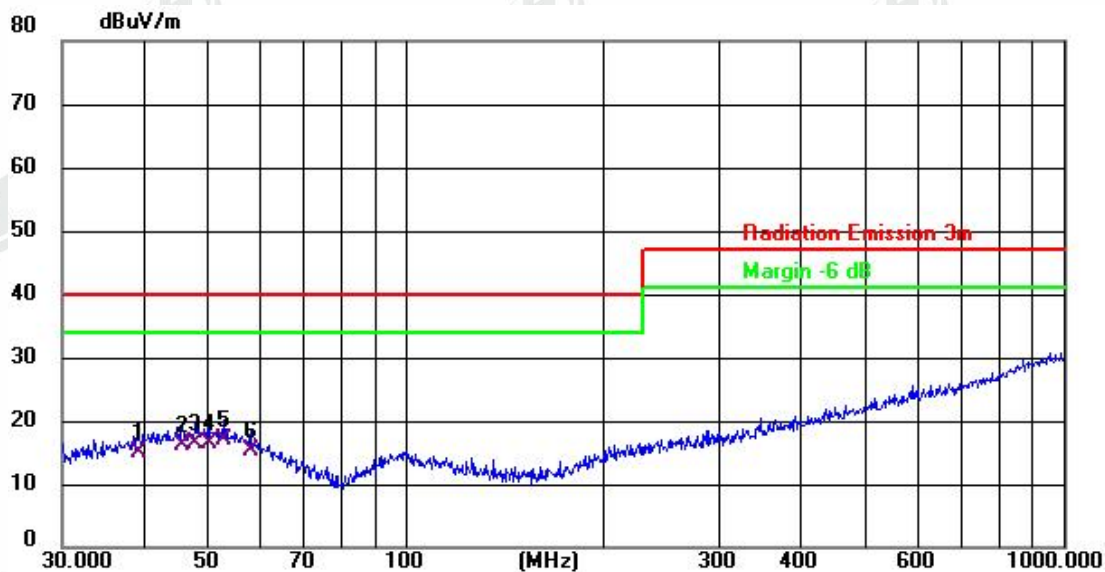
Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	38.4810	21.26	-9.38	11.88	40.00	-28.12	QP			P	
2	42.3021	21.88	-8.86	13.02	40.00	-26.98	QP			P	
3 *	44.9004	22.25	-8.65	13.60	40.00	-26.40	QP			P	
4	48.3316	21.84	-8.37	13.47	40.00	-26.53	QP			P	
5	52.0251	21.52	-8.47	13.05	40.00	-26.95	QP			P	
6	56.3947	22.25	-8.98	13.27	40.00	-26.73	QP			P	



Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	39.1613	24.16	-9.23	14.93	40.00	-25.07	QP			P	
2	45.6946	24.80	-8.59	16.21	40.00	-23.79	QP			P	
3	47.8260	24.85	-8.42	16.43	40.00	-23.57	QP			P	
4	50.2323	24.71	-8.27	16.44	40.00	-23.56	QP			P	
5 *	52.9453	25.68	-8.58	17.10	40.00	-22.90	QP			P	
6	57.9992	24.47	-9.18	15.29	40.00	-24.71	QP			P	

Note: Level=Reading + Factor

Margin=Level – Limit



4.3. Harmonic current emissions

4.3.1. Limit

Class A Harmonics Currents

Harmonics Order n	Maximum Permissible harmonic current (A)	Harmonics Order n	Maximum Permissible harmonic current (A)
Odd harmonics		Even harmonics	
3	2.30	2	1.08
5	1.14	4	0.43
7	0.77	6	0.30
9	0.40	$8 \leq n \leq 40$	$0.23 * 8/n$
11	0.33		
13	0.21		
$15 \leq n \leq 39$	$0.15 * 15/n$		

Class B Harmonics Currents

For Class B equipment, the harmonic of the input current shall not exceed the maximum permissible values given in table which is the limit of Class A multiplied by a factor of 1.5.

Class C Harmonics Currents

Harmonics Order n	Maximum Permissible harmonic current Expressed as a percentage of the input current at the fundamental frequency (%)
2	2
3	$30 \cdot \lambda *$
5	10
7	7
9	5
$11 \leq n \leq 39$ (odd harmonics only)	3
* λ is the circuit power factor	



Class D Harmonics Currents

Harmonics Order n	Maximum Permissible harmonic current per watt (mA/W)	Maximum Permissible harmonic current (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
$11 \leq n \leq 39$ (odd harmonics only)	$3.85/n$	See limit of Class A

4.3.2. Test Procedure

The EUT was placed on the top of a wooden table 0.8 meters above the ground and the EUT is supplied in series with power analyzer from a power source having the same normal voltage and frequency as the rated supply voltage and the equipment under test. And the rated voltage at the supply voltage of EUT of 0.94 times and 1.06 times shall be performed.

A definition of the normal load or of the conditions for adequate heat discharge can usually be found in the EN publication corresponding to the equipment under test.

Equipment may have several separately controlled circuits. Each circuit is considered as a single piece of equipment if it can be operated independently and separately from the other circuits.

4.3.3. Test Result

N/A

This product is powered by DC and is not applicable to this project.



4.4. Voltage changes, voltage fluctuations and flicker

4.4.1. Test Procedure

The EUT is supplied in series with power analyzer from a power source having the same normal voltage and frequency as the rated supply voltage and the equipment under test. And the rated voltage at the supply voltage of EUT of 0.94 times and 1.06 times shall be performed. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under normal operating conditions.

During the flick measurement, the measure time shall include that part of whole operation cycle in which the EUT produce the most unfavorable sequence of voltage changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.

4.4.2. Limit

Test Item	Limit
Pst (Short-term flicker indicator.)	1.0
Plt (Long-term flicker indicator.)	0.65
Td(t)(ms) (Maximum time that d(t) exceeds 3.3%)	500
dmax(%) (Maximum relative voltage change.)	4
dc(%) (Relative steady-state voltage change)	3.3

4.4.3. Test Result

N/A

This product is powered by DC and is not applicable to this project.



5. Immunity

Performance criteria

Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss function is allowed below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion B

The equipment shall continue to operate as intended after the test. No degradation of performance or loss function is allowed below a performance level specified by the manufacturer, when the equipment is used as intended. During the test, degradation of performance is however allowed. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from equipment if used as intended.

Performance criterion C

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



5.1. Electrostatic discharges

5.1.1. Test Specification

Test Port	:	Enclosure port
Discharge Impedance	:	330 ohm / 150 pF
Discharge Mode	:	Single Discharge
Discharge Period	:	one second between each discharge

5.1.2. Test Levels and Performance Criterion

Test Standard

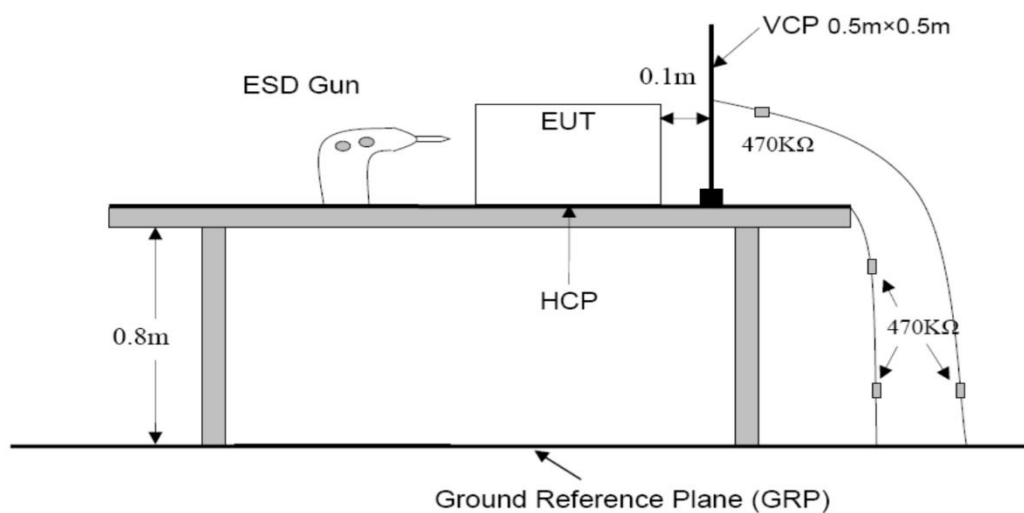
EN IEC 61000-6-1:2019

(EN 61000-4-2: 2009)

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

Performance criterion: **B**

5.1.3. Test setup





5.1.4. Test Procedure

Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated (10 of each polarity) for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Contact Discharge:

All the procedure shall be same as Section Air Discharge except that the tip of the discharge electrode shall touch the EUT.

Indirect discharge for horizontal coupling plane:

At least 10 single discharges(in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit(if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

Indirect discharge for vertical coupling plane:

At least 10 single discharge (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

5.1.5. Test Result

PASS

Test Point	Contact (C) Air (A)	Voltage (kV)	Performance Criterion	Result (Performance Criterion)
Indirect Discharge (HCP)	C	± 4	☐ A ☒ B	A
Indirect Discharge (VCP)	C	± 4	☐ A ☒ B	A
Conductive Surfaces	C	± 4	☐ A ☒ B	A
Slots, Apertures, and Insulating Surfaces	A	± 8	☐ A ☒ B	A



5.2. Radio-frequency electromagnetic field

5.2.1. Test Specification

Test Port	:	Enclosure port
Step Size	:	1%
Modulation	:	1kHz, 80% AM
Dwell Time	:	1 second
Polarization	:	Horizontal & Vertical

5.2.2. Test Levels and Performance Criterion

Test Standard

EN IEC 61000-6-1:2019

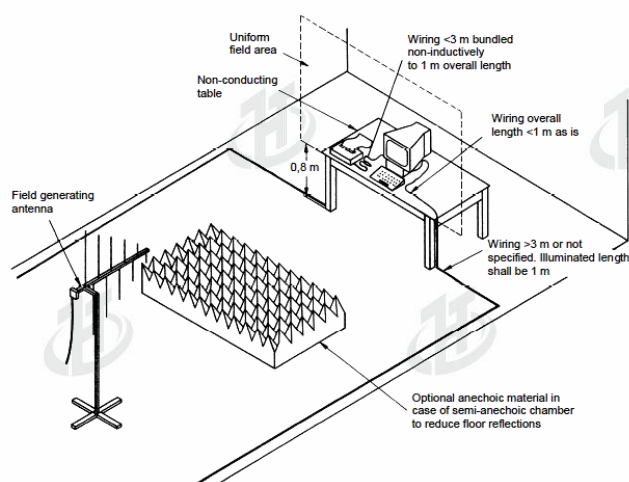
(EN IEC 61000-4-3:2020)

Characteristics	Test levels	
Frequency range	80 MHz to 1 000 MHz, 1 400 Mhz to 2 000 Mhz	2 000 MHz to 2 700 MHz
Test level	3 V/m (unmodulated)	1 V/m (unmodulated)
Modulation	1 kHz, 80 % AM, sine wave	1 kHz, 80 % AM, sine wave

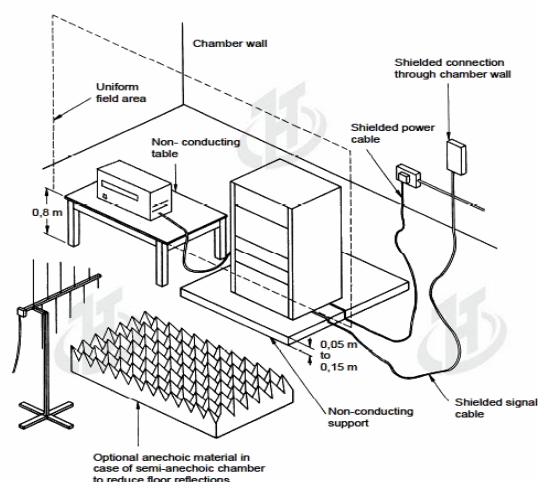
Performance criterion: **A**

5.2.3. Test setup

For table-top equipment



For floor standing equipment





5.2.4. Test Procedure

Measurement was performed in full-an echoic chamber.

Measurement procedure was applied according to EN 61000-4-3 clause 8.

The test method and equipment was specified by EN 61000-4-3.

5.2.5. Test Result

PASS

Frequency (MHz)	Polarization	Test level (V/m)	Modulation	Exposed location	Result (Performance Criterion)
80-1 000, 1 400-2000	H & V	3	1 kHz, 80% AM, 1 % increment	All sides	A
2 000 - 2 700	H & V	1	1 kHz, 80% AM, 1 % increment	All sides	A



5.3. Fast transients

5.3.1. Test Specification

Test Port	:	input a.c. power port
Impulse Frequency	:	5 kHz
Impulse Wave-shape	:	5/50 ns
Burst Duration	:	15 ms
Burst Period	:	300 ms
Test Duration	:	2 minutes per polarity

5.3.2. Test Levels and Performance Criterion

Test Standard

EN IEC 61000-6-1:2019

(EN 61000-4-4: 2012)

Open circuit output test voltage and repetition rate of the impulses				
Level	On power port, PE		On I/O (Input/Output) Signal data and control ports	
	Voltage peak KV	Repetition rate KHz	Voltage peak KV	Repetition rate 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

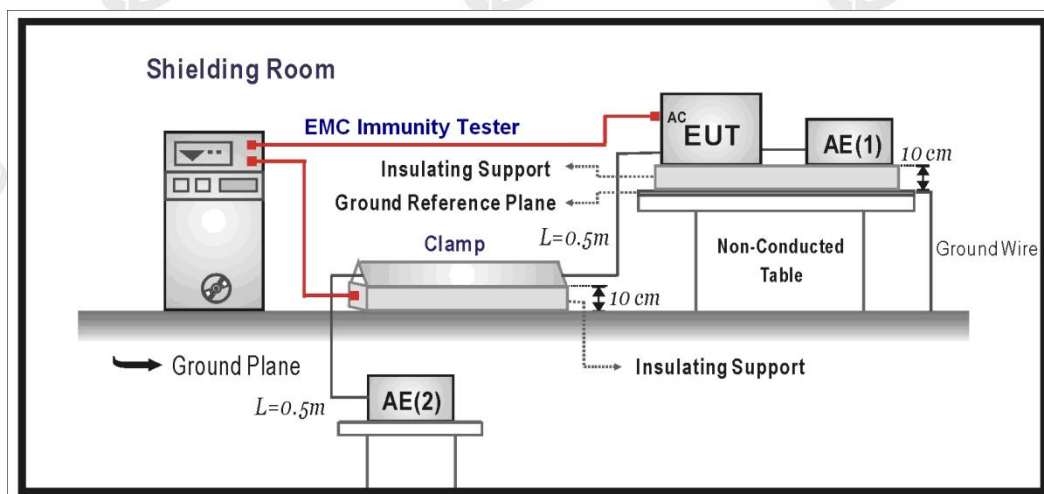
Note 1 Use of 5 KHz repetition rates is traditional; however, 100 KHz is closer to reality. Product committees should determine which frequencies are relevant for specific products or product types.

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

Note 3 "X" is an open level. The level has to be specified in the dedicated equipment specification.

Performance criterion: **B**

5.3.3. Test setup



5.3.4. Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 minus.

For Signal/Control ports:

Applicable only to ports which, according to the manufacturer's specification, support cable lengths greater than 3 m

For DC network power ports:

Not applicable to input ports intended for connection to a battery or a rechargeable battery which shall be removed or disconnected from the equipment for recharging

Test the device with a DC power input port on the AC power input specified by the AC-DC power adapter, which is intended to be used with a dedicated AC-DC power adapter. If the adapter is used, this test is only applicable to the intended permanent connection to a length exceeding 3 M

5.3.5. Test Result

N/A

This product is powered by DC and is not applicable to this project.



5.4. Surges

5.4.1. Test Specification

Test Port	:	input a.c. power port
Wave-Shape	:	Open Circuit Voltage - 1.2 / 50 us Short Circuit Current - 8 / 20 us
Pulse Repetition Rate	:	1 pulse / min.
Phase Angle	:	0° / 90° / 180° / 270°
Test Events	:	5 pulses (positive & negative) for each polarity

5.4.2. Test Levels and Performance Criterion

Test Standard

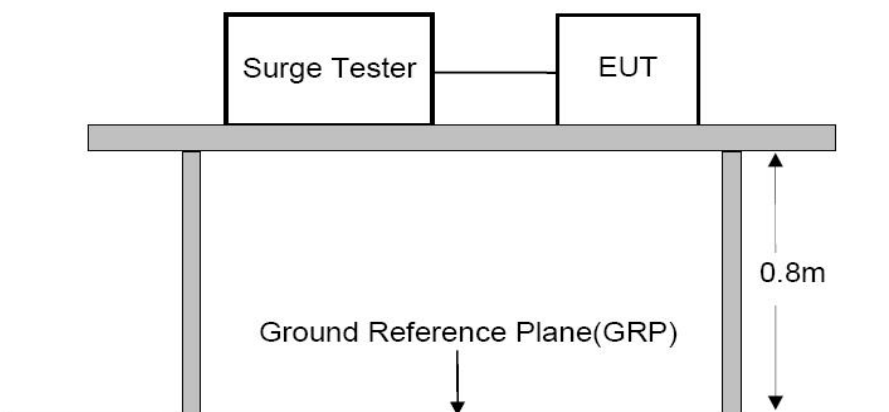
EN IEC 61000-6-1:2019

(EN 61000-4-5:2014 + A1:2017)

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

Performance criterion: **B**

5.4.3. Test setup





5.4.4. Test Procedure

1. Set up the EUT and test generator as shown on Section 12.1.
2. For line to line coupling mode, provide a 1.0KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
3. Five positive pulses Line-to-neutral at 90°phase, Five negative pulses Line-to-neutral at 270°phase. with a maximum 1/min repetition rate are conducted during test.
4. Different phase angles are done individually.
5. Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

5.4.5. Test Result

N/A

This product is powered by DC and is not applicable to this project.



5.5. Radio-frequency common mode

5.5.1. Test Specification

Test Port	:	input a.c. power port
Step Size	:	1%
Modulation	:	1kHz, 80% AM
Dwell Time	:	1 second

5.5.2. Test Levels and Performance Criterion

Test Standard

EN IEC 61000-6-1:2019

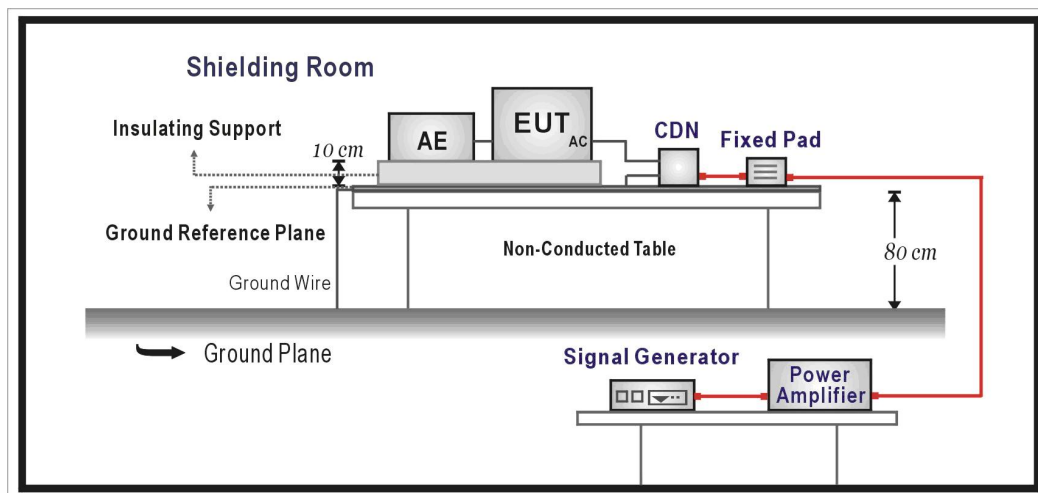
(EN IEC 61000-4-6: 2023)

Frequency ranges MHz	Test level V	Modulation	Performance criterion
0,15 to 80	3	80% AM (1kHz)	A

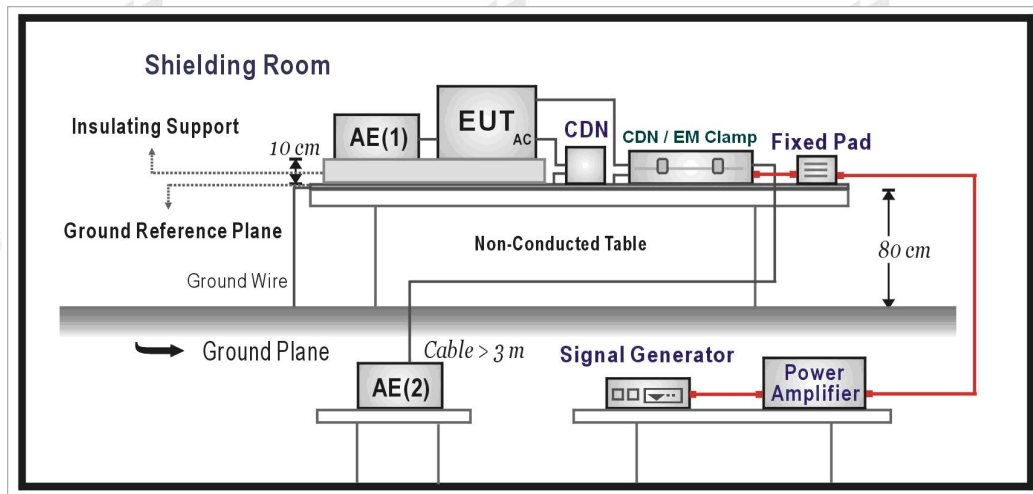
Performance criterion: **A**

5.5.3. Test setup

CDN Method



EM Clamp Method



5.5.4. Test Procedure

1. Set up the EUT, CDN and test generators as shown on Section 5.6.1.
2. Let the EUT work in test mode and measure it.
3. The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
4. The disturbance signal described below is injected to EUT through CDN.
5. The EUT operates within its operational mode(s) under intended climatic conditions after power on.
6. 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.
7. 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.
8. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

5.5.5. Test Result

N/A

This product is powered by DC and is not applicable to this project.



5.6. Power frequency magnetic fields

5.6.1. Test Levels and Performance Criterion

Test Standard

EN IEC 61000-6-1:2019

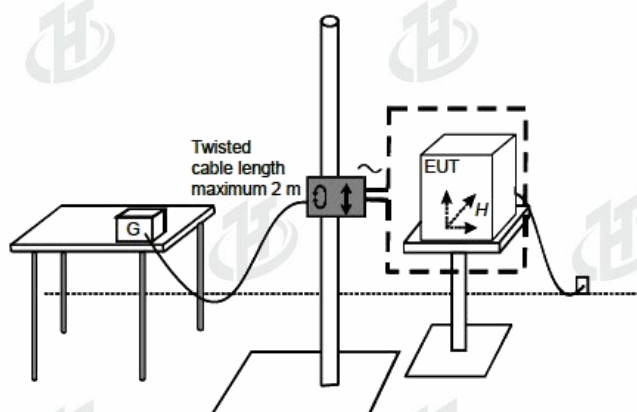
(EN 61000-4-8:2010)

Characteristics	Test levels
Field frequency	50 / 60 Hz
Test level	3 A/m

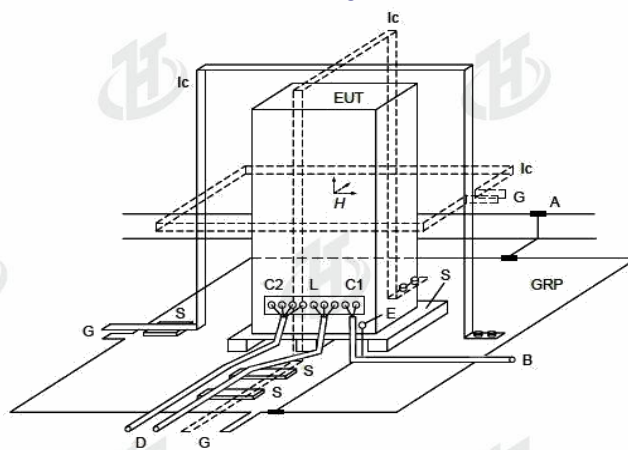
Performance criterion: **A**

5.6.2. Test setup

For table-top equipment



For floor standing equipment



5.6.3. Test Procedure

Measurement was performed in shielded room.

Measurement procedure was applied according to EN 61000-4-8 clause 8.

The test method and equipment was specified by EN 61000-4-8.

5.6.4. Test Result

N/A

The product is not a magnetically sensitive device

5.7. Voltage Dips and Voltage interruptions

5.7.1. Test Specification

Test Port	:	input a.c. power port
Phase Angle	:	0°, 180°
Test cycle	:	3 times

5.7.2. Test Levels and Performance Criterion

Test Standard

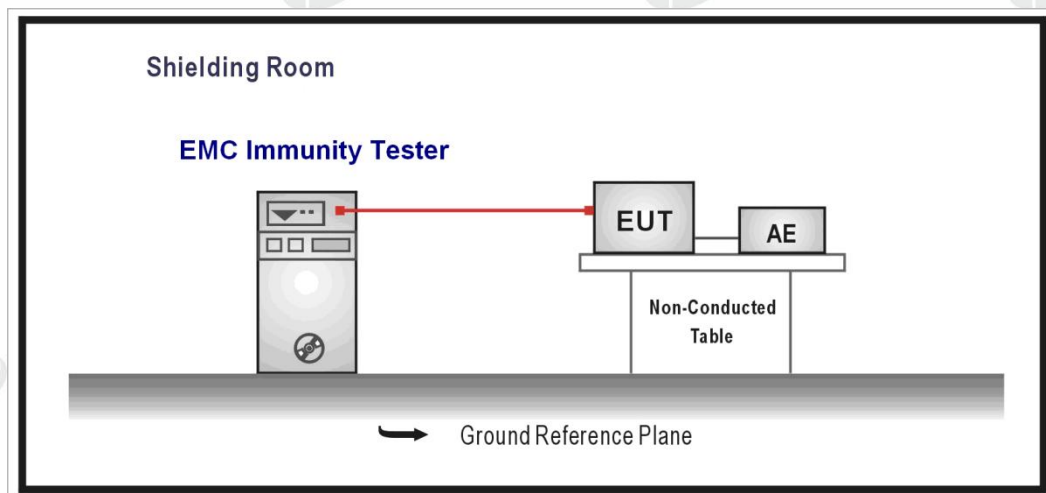
EN IEC 61000-6-1:2019

(EN IEC 61000-4-11: 2020)

Test Level %UT	Voltage dip and short interruptions %UT	Duration (in period)	
		50Hz	60Hz
0	100	0.5	0.5
0	100	1	1
70	30	25	30
0	100	250	300

Performance criterion: **B, B, C, C,**

5.7.3. Test setup





5.7.4. Test Procedure

1. Set up the EUT and test generator as shown on Section 5.7.1.
2. The interruptions is introduced at selected phase angles with specified duration. Record any degradation of performance.

5.7.5. Test Result

N/A

This product is powered by DC and is not applicable to this project.

6. Photographs of EUT

EUT Photo 1



EUT Photo 2

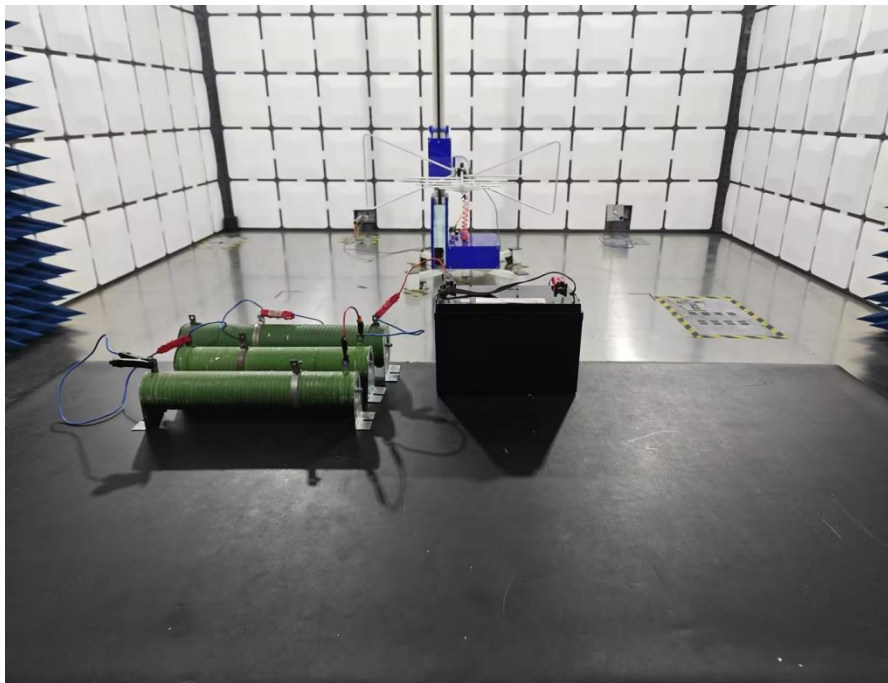


EUT Photo 3



7. Test Setup Photographs

Radiated Emission



End of report