EMC Test Report

For

Applicant Name:	**NKON B.V.**
Address:	De Huufkes 87, 5674TL Nuenen,Netherlands
EUT Name:	Lithium iron phosphate battery pack
Brand Name:	N/A
Model Number:	ESS Pro 16kWh
Series Model Number:	N/A

Issued By

Company Name:	**BTF Testing Lab (Shenzhen) Co., Ltd.**
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Report Number:	BTF250903E00701-2
Test Standards:	EN IEC 61000-6-4:2019 EN IEC 61000-3-2:2019+A2:2024 EN 61000-3-3:2013+A2:2021 EN IEC 61000-6-2:2019
Test Conclusion:	Pass
Date of sample receipt:	2025-04-08
Test date:	2025-04-09 to 2025-04-14
Date of issue:	2025-09-30
Test by:	Conlin Wu Conlin Wu / Tester
Prepared by:	Chris Liu Chris Liu / Project engineer
Approved by:	Ryan.CJ / EMC Manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-09-15	This report is modified based on BTF250707E00101, changing EUT Model Number and Application Information, not affect EMC data and does not require testing
R_V0	2025-09-15	Original Report Number: BTF250903E00701
R_V1	2025-09-30	The based on original report: BTF250903E00701, modify the model format, not affect the EMC test results, and no additional test is required
R_V1	2025-09-30	Original Report Number: BTF250903E00701-1
R_V2	2025-09-30	The based on original report: BTF250903E00701-1, modify the model format, not affect the EMC test results, and no additional test is required
Note: Once the revision has been made, then previous versions reports are invalid.		

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

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

- **CNAS - Registration No.: CNAS L17568**

  BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.

1.3 Announcement

(1) The test report reference to the report template version v0.
(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
(3) The test report is invalid if there is any evidence and/or falsification.
(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 Product Information

2.1 Application Information

Company Name:	NKON B.V.
Address:	De Huufkes 87,5674TL Nuenen,Netherlands

2.2 Manufacturer Information

Company Name:	NKON B.V.
Address:	De Huufkes 87,5674TL Nuenen,Netherlands

2.3 Factory Information

Company Name:	NKON B.V.
Address:	De Huufkes 87,5674TL Nuenen,Netherlands

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Lithium iron phosphate battery pack
Test Model Number:	ESS Pro 16kWh
Series Model Number:	N/A
Description of Model name differentiation:	N/A
Power Supply:	Input: 58.4V 200A Output: 51.2V 314Ah 16.0768kWh

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3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:
EN IEC 61000-6-4:2019: Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
EN IEC 61000-3-2:2019+A2:2024: Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16A per phase)
EN 61000-3-3:2013+A2:2021: Electromagnetic compatibility (EMC) -- Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16A per phase and not subject to conditional connection
EN IEC 61000-6-2:2019: Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments

3.2 Uncertainty of Test

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	±2.64dB
Radiated Emissions (30M - 1GHz)	±4.12dB
Harmonic Current	±4.30%
Voltage Flicker	±5.88%
The following measurement uncertainty levels have been estimated for tests performed on the EUT 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.	

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Conducted emissions - low voltage AC mains port	EN IEC 61000-6-4:2019	Table 4	N/A
Radiation disturbance (30MHz-1GHz)	EN IEC 61000-6-4:2019	Table 3	Pass
Harmonic current emission	EN IEC 61000-3-2:2019+A2:2024	Class A	N/A
Voltage fluctuations and flicker	EN 61000-3-3:2013+A2:2021	Clause 4	N/A
Electrostatic discharge	EN IEC 61000-6-2:2019	Table 1.4	Pass
Radio-frequency electromagnetic field	EN IEC 61000-6-2:2019	Table 1.2 & 1.3	Pass Note
Fast transients-Input and output AC power ports	EN IEC 61000-6-2:2019	Table 4.5	N/A
Surges on Input and output AC power ports	EN IEC 61000-6-2:2019	Table 4.4	N/A
Radio-frequency common mode-Input and output AC power ports	EN IEC 61000-6-2:2019	Table 4.1	N/A
Voltage dips and Interruptions	EN IEC 61000-6-2:2019	Table 4.2 & 4.3	N/A
N/A: The DC products are not applicable. *Note: Pass*: The test item is subcontracted to Shenzhen TCT Testing Technology Co., LTD., whose A2LA and CNAS qualification scope covers the testing capability of the test item.*			

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4 Test Configuration

4.1 Test Equipment List

Radiated Emission Test					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI7	101032	2024/10/25	2025/10/24
Signal Analyzer	Rohde & Schwarz	FSQ40	100010	2024/10/25	2025/10/24
Log periodic antenna	Schwarzbeck	VULB 9168	01328	2024/10/28	2025/10/27
Preamplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9744	00246	2024/09/24	2025/09/23
Horn Antenna	Schwarzbeck	BBHA9120D	2597	2024/10/30	2025/10/29
Preamplifier (1GHz ~ 18GHz)	Schwarzbeck	BBV9718D	00008	2024/09/24	2025/09/23
Test Software	Frad	EZ_EMC	Version: FA-03A2 RE+		

Conducted Emission Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI3	101422	2024/10/25	2025/10/24
V-LISN	Schwarzbeck	NSLK 8127	01073	2024/10/25	2025/10/24
Coaxial Switcher	Schwarzbeck	CX210	CX210	/	/
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	/	/
Test Software	Frad	EZ_EMC	Version: EMC-CON 3A1.1+		

Harmonic Current Emissions & Voltage Changes, Voltage Fluctuations and Flicker Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Harmonic and Flicker system	ZES ZIMMER	HAF5000S	930670	2024/10/25	2025/10/24

Electrostatic Discharges (ESD) Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
ESD Generator	Prima	PESD6030	PR210823683	2024/10/28	2025/10/27

Electrical Fast Transients/Burst (EFT/B) Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EFT Generator	Prima	PEFT6030-3816	PR210343256	2024/10/25	2025/10/24

Surges Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Surge Generator	Prima	PSUG6010-2216	PR210955342	2024/10/25	2025/10/24
Isolation transformer	Prima	JMB-2KVA	LL-PLM2125	2024/10/25	2025/10/24

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Power Frequency Magnetic Field Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
PFMF Generator	Prima	PFM61008TG	PR210881435	2024/10/25	2025/10/24

Voltage Dips and Interruptions Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Dips Generator	Prima	PDIP6010	PR20076499	2024/10/25	2025/10/24

Continuous Induced RF Disturbances Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Rf conduction immunity test system	Prima	CRF61006A	PR210681042	2024/10/25	2025/10/24
6DB ATTENUATOR	Prima	50W DC-3GHZ	T2A-50-6-3-N	2024/10/25	2025/10/24
CDN coupling	Prima	CRF-CDN-M216	PR210881044	2024/10/25	2025/10/24
CDN coupling	Prima	CRF-CDN-M316	PR210881049	2024/10/25	2025/10/24

Continuous RF Electromagnetic Field Disturbances Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Field Probe	Narda	EP-601	811ZX01057	2024/06/27	2025/06/28
Antenna	SKET	STLP9129_Plus	/	/	/
Amplifier	SKET	HAP_03G06G-80W	202004044	2024/06/25	2025/06/26
Amplifier	SKET	HAP_01G03G-75W	202104180	2024/06/25	2025/06/26
Amplifier	SKET	HAP_80M01G-250W	/	2024/06/25	2025/06/26
USB Power Sensor	Agilent	U2001A	MZ54330012	2025/01/19	2026/01/20
USB Power sensor	Agilent	U2000A	MY53410013	2025/01/19	2026/01/20
Signal Generator	Agilent	N5181A	MY50141997	2025/01/19	2026/01/20

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4.2 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description
Resistive load	/	/	/	/	/

4.3 Test Modes

No.	Test Modes
TM1	Normal Working

5 Emission Test Results (EMI)

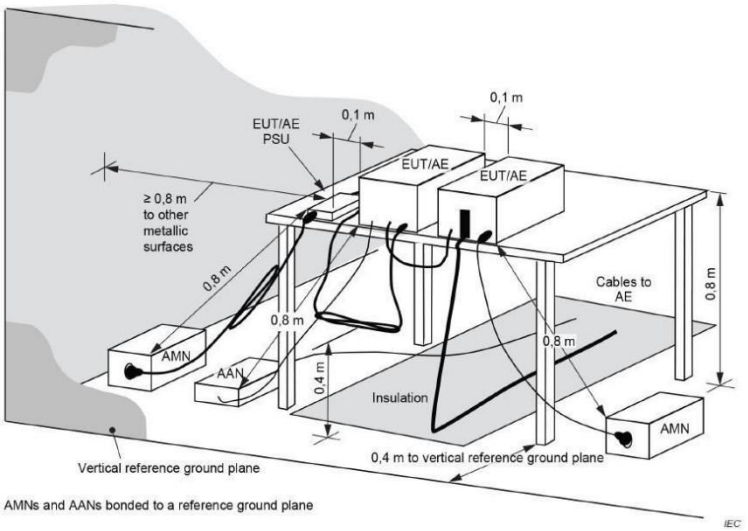
5.1 Conducted emissions - low voltage AC mains port

Test Requirement:	Table 4
Test Method:	CISPR 16-2-1 Clause 7
Test Limit:	Frequency range: 0,15 MHz to 0,5 MHz — Limits: 79 dB(uV) quasi-peak; 66 dB(uV) average; Limits decrease linearly with the logarithm of the frequency Frequency range: 0,5 MHz to 30 MHz — Limits: 73 dB(uV) quasi-peak; 60 dB(uV) average At transitional frequencies the lower limit applies.
Procedure:	An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

5.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.5 °C
Humidity:	54 %
Atmospheric Pressure:	1010 mbar

5.1.2 Test Setup Diagram:



5.1.3 Test Data:

Note: The DC products are not applicable.

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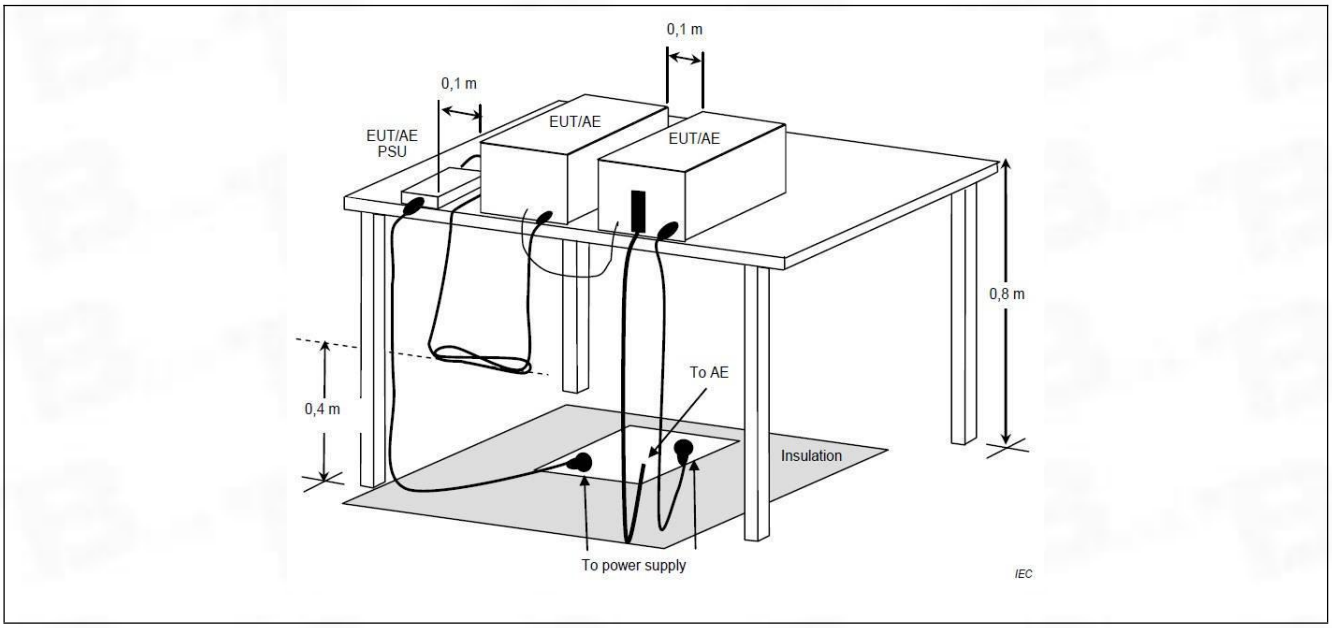
5.2 Radiation disturbance (30MHz-1GHz)

Test Requirement:	Table 3
Test Method:	CISPR 16-2-3 Clause 7.3
Test Limit:	Frequency range / Limits at 10m / Limits at 3m 30 MHz to 230 MHz / 40 dB(uV/m) quasi-peak / 50 dB(uV/m) quasi-peak 230 MHz to 1 000 MHz / 47 dB(uV/m) quasi-peak / 57 dB(uV/m) quasi-peak At transitional frequencies the lower limit applies.
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

5.2.1 E.U.T. Operation:

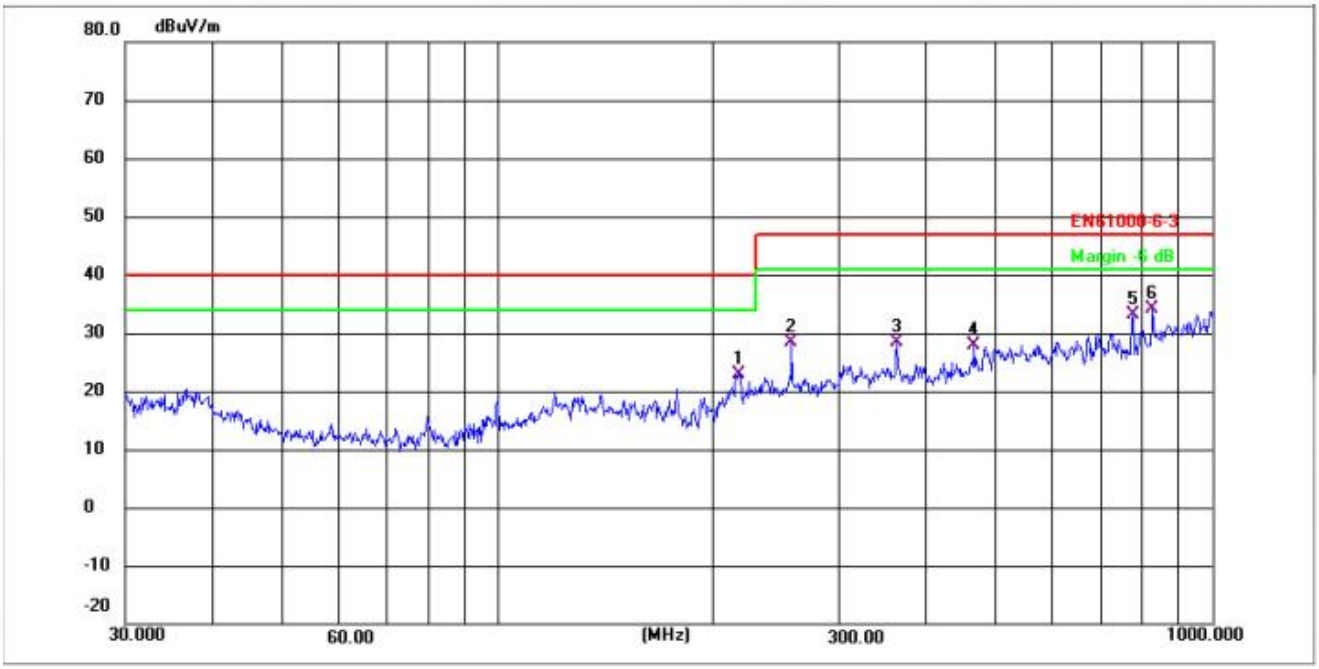
Operating Environment:	
Temperature:	24.6 °C
Humidity:	55 %
Atmospheric Pressure:	1010 mbar

5.2.2 Test Setup Diagram:



5.2.3 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	217.5440	44.36	-21.36	23.00	40.00	-17.00	QP	P
2	258.3263	49.41	-20.98	28.43	47.00	-18.57	QP	P
3	361.7137	48.60	-20.14	28.46	47.00	-18.54	QP	P
4	464.7837	47.24	-19.28	27.96	47.00	-19.04	QP	P
5	775.5170	50.99	-17.81	33.18	47.00	-13.82	QP	P
6 *	827.4932	51.58	-17.41	34.17	47.00	-12.83	QP	P

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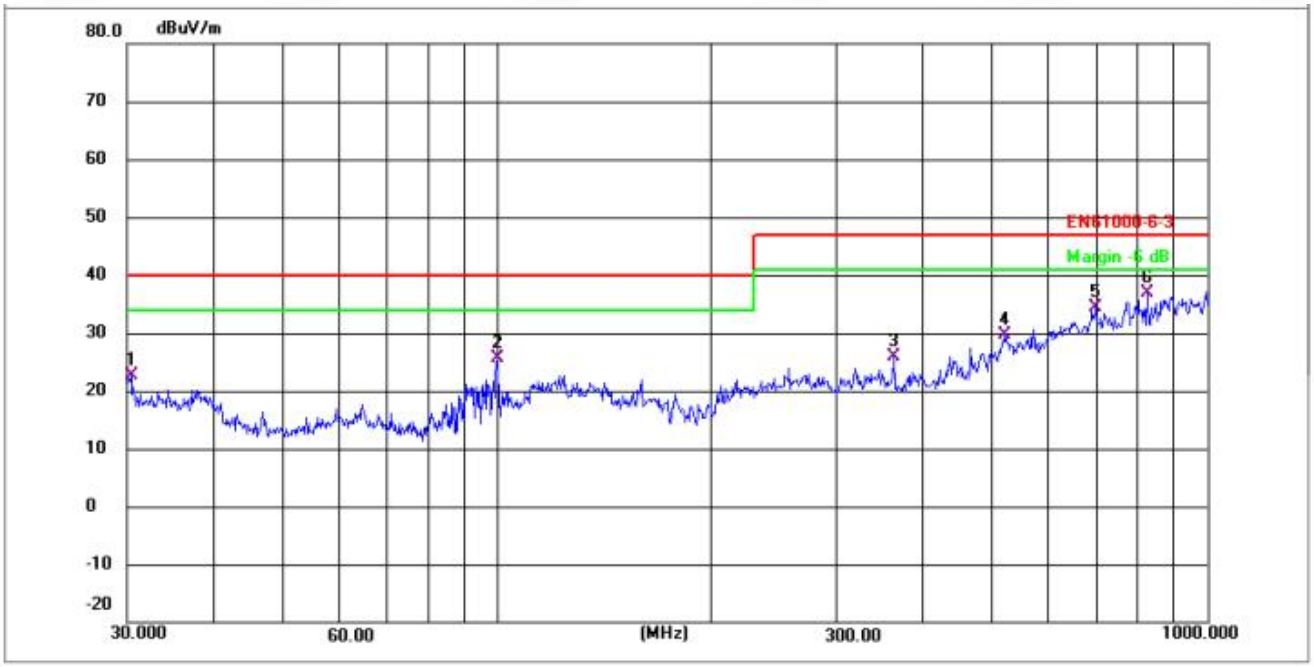
TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	30.5304	32.44	-9.85	22.59	40.00	-17.41	QP	P
2	99.8777	48.04	-22.47	25.57	40.00	-14.43	QP	P
3	361.7137	45.92	-20.14	25.78	47.00	-21.22	QP	P
4	519.0650	48.53	-18.86	29.67	47.00	-17.33	QP	P
5	698.0795	51.93	-17.63	34.30	47.00	-12.70	QP	P
6 *	824.5968	54.22	-17.45	36.77	47.00	-10.23	QP	P

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5.3 Harmonic current emission

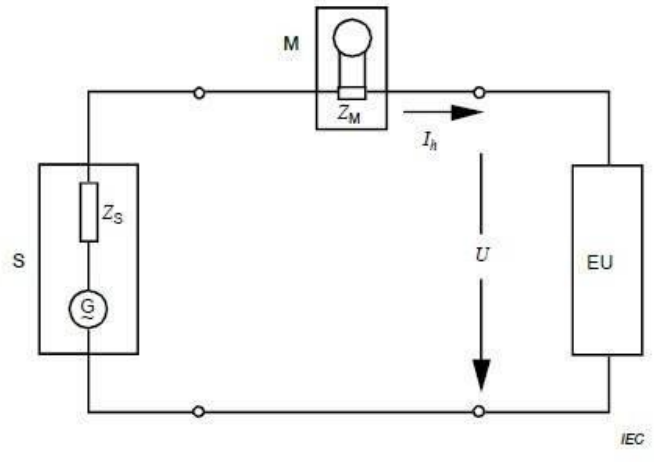
Test Requirement:	Class A
Test Method:	EN IEC 61000-3-2:2019+A2:2024
Test Limit:	

Harmonic order h	Maximum permissible harmonic current A
Odd harmonics	
3	2,30
5	1,14
7	0,77
9	0,40
11	0,33
13	0,21
$15 \le h \le 39$	$0{,}15\frac{15}{h}$
Even harmonics	
2	1,08
4	0,43
6	0,30
$8 \le h \le 40$	$0{,}23\frac{8}{h}$

5.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.3 °C
Humidity:	49 %
Atmospheric Pressure:	1010 mbar

5.3.2 Test Setup Diagram:



5.3.3 Test Data:

Note: The DC products are not applicable.

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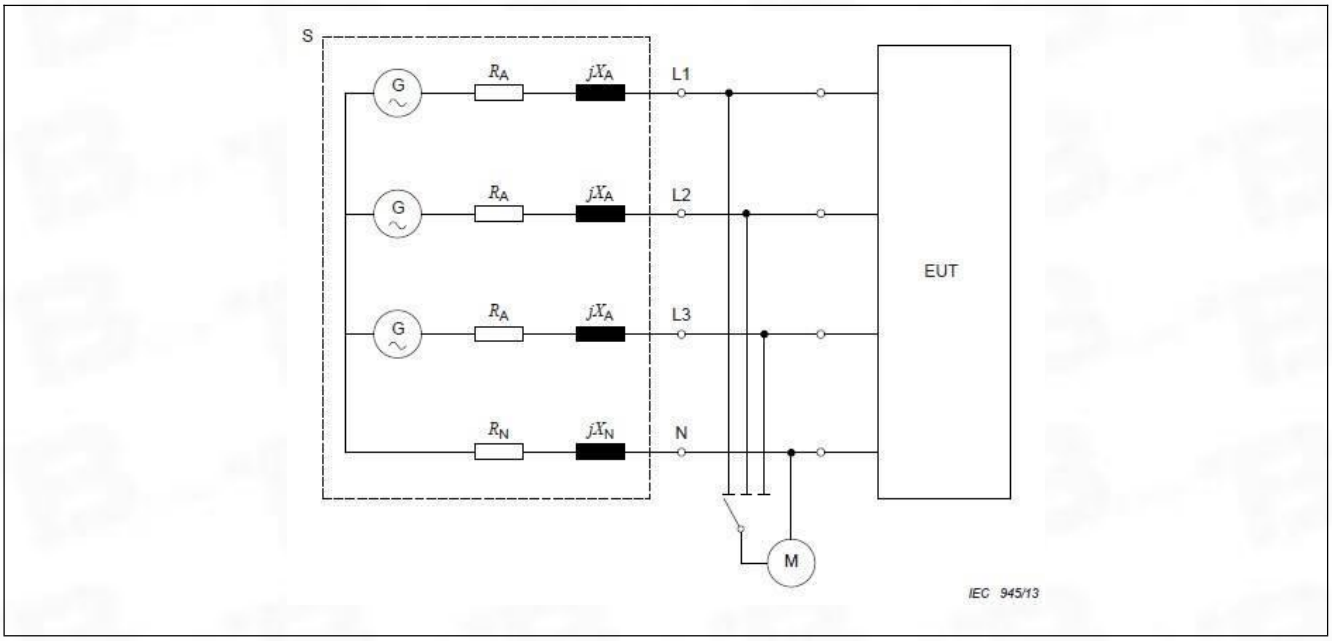
5.4 Voltage fluctuations and flicker

Test Requirement:	Clause 4
Test Method:	EN 61000-3-3: 2013+A2:2021
Test Limit:	Clause 5

5.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.3 °C
Humidity:	49 %
Atmospheric Pressure:	1010 mbar

5.4.2 Test Setup Diagram:



5.4.3 Test Data:

Note: The DC products are not applicable.

6 Immunity Test Results (EMS)

Performance Criteria Description in EN IEC 61000-6-2
Performance Criteria

Performance Criterion A
The EUT shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

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

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

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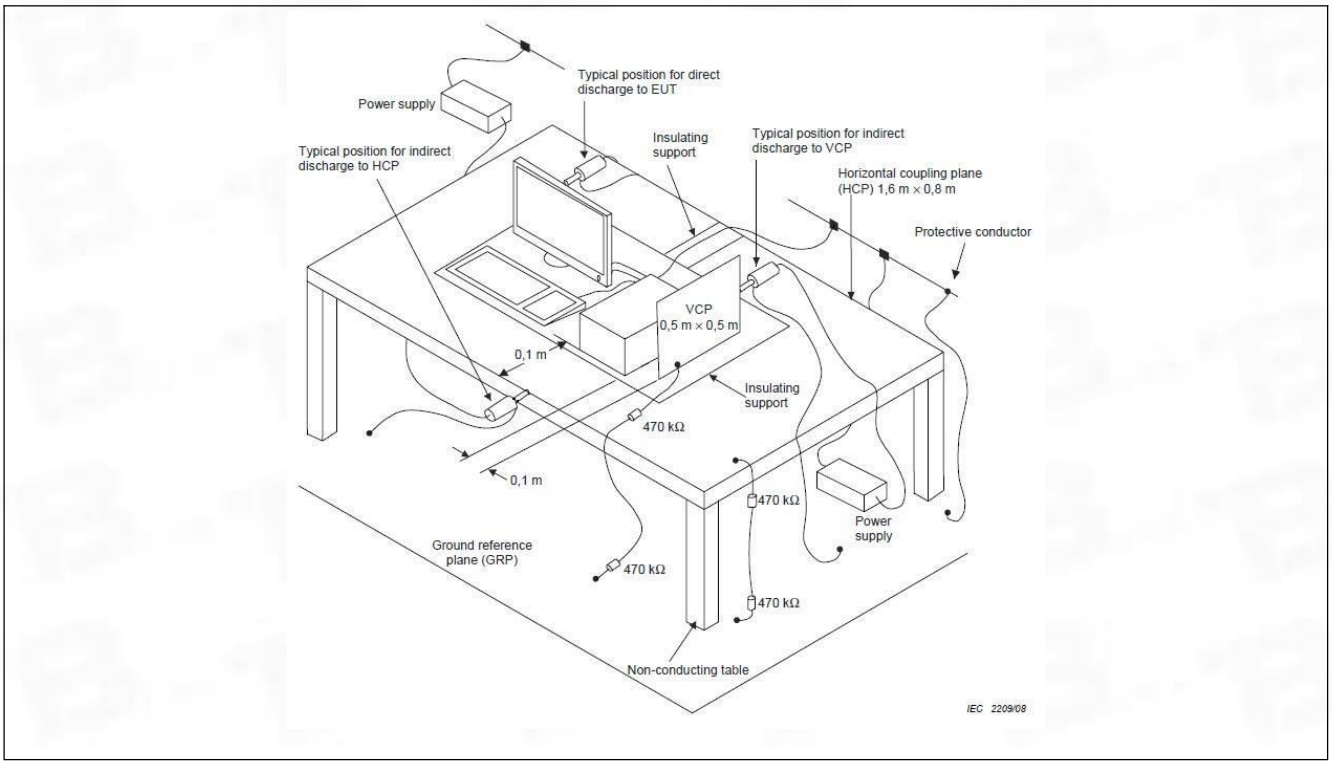
6.1 Electrostatic discharge

Test Requirement:	Table 1.4
Test Method:	IEC 61000-4-2
Procedure:	Discharge Impedance: 330 Ω / 150 pF Discharge Voltage: Air Discharge: 8 kV; Contact Discharge:4 kV; VCP/HCP: 4 kV. Polarity: Positive & Negative Number of Discharge: Minimum 10 times at each test point Discharge Mode: Single Discharge Discharge Period: 1 second minimum Test Point 1: All insulated enclosure & seams. Test Point 2: All accessible metal parts of the enclosure. Test Point 3: All sides.
Performance Criteria:	B

6.1.1 E.U.T. Operation:

Operating Environment:	
Temperature:	26.3 °C
Humidity:	53%
Atmospheric Pressure:	1010 mbar

6.1.2 Test Setup Diagram:



6.1.3 Test Data:

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

Test Points:
Air discharge: Red Arrow
Contact discharge: Yellow Arrow
Horizontal / Vertical Coupling: All sides

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

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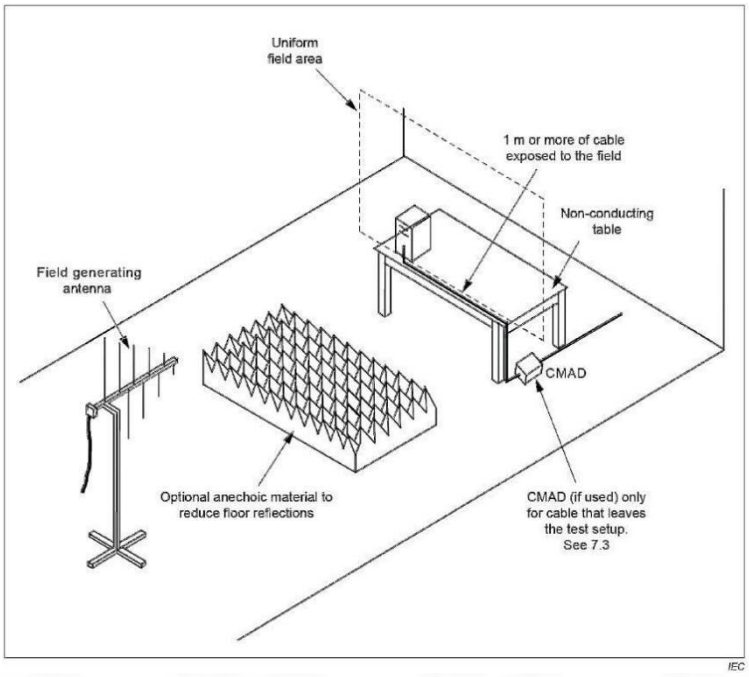
6.2 Radio-frequency electromagnetic field

Test Requirement:	Table 1.2 & 1.3
Test Method:	IEC 61000-4-3
Procedure:	Antenna Polarisation: Vertical and Horizontal Modulation: 1kHz,80% Amp. Mod,1% increment Frequency Range and Level: 80MHz to 1GHz 10V/m, 1.4GHz to 6GHz 3V/m
Performance Criteria:	A

6.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23 °C
Humidity:	48 %
Atmospheric Pressure:	1010 mbar

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Frequency	Field Strength (V/m)	EUT face	Dwell time	Result/ Observations
80MHz-1GHz	10	Front	2s	A
80MHz-1GHz	10	Back	2s	A
80MHz-1GHz	10	Left	2s	A
80MHz-1GHz	10	Right	2s	A
80MHz-1GHz	10	Top	2s	A
80MHz-1GHz	10	Bottom	2s	A
1.4GHz-6GHz	3	Front	2s	A
1.4GHz-6GHz	3	Back	2s	A
1.4GHz-6GHz	3	Left	2s	A
1.4GHz-6GHz	3	Right	2s	A
1.4GHz-6GHz	3	Top	2s	A
1.4GHz-6GHz	3	Bottom	2s	A

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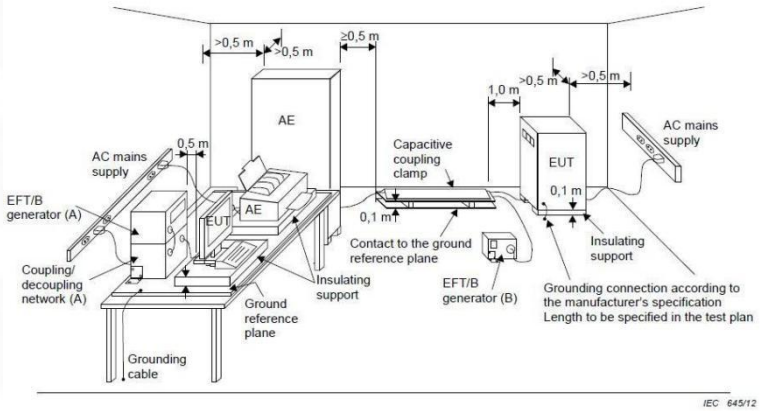
6.3 Fast transients-Input and output AC power ports

Test Requirement:	Table 4.5
Test Method:	IEC 61000-4-4
Procedure:	Repetition Frequency: 5kHz or 100kHz Burst Period: 300ms Test Duration:2 minute per level & polarity Test Level: ±2kV
Performance Criteria:	B

6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.9 °C
Humidity:	53 %
Atmospheric Pressure:	1010 mbar

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Note: The DC products are not applicable.

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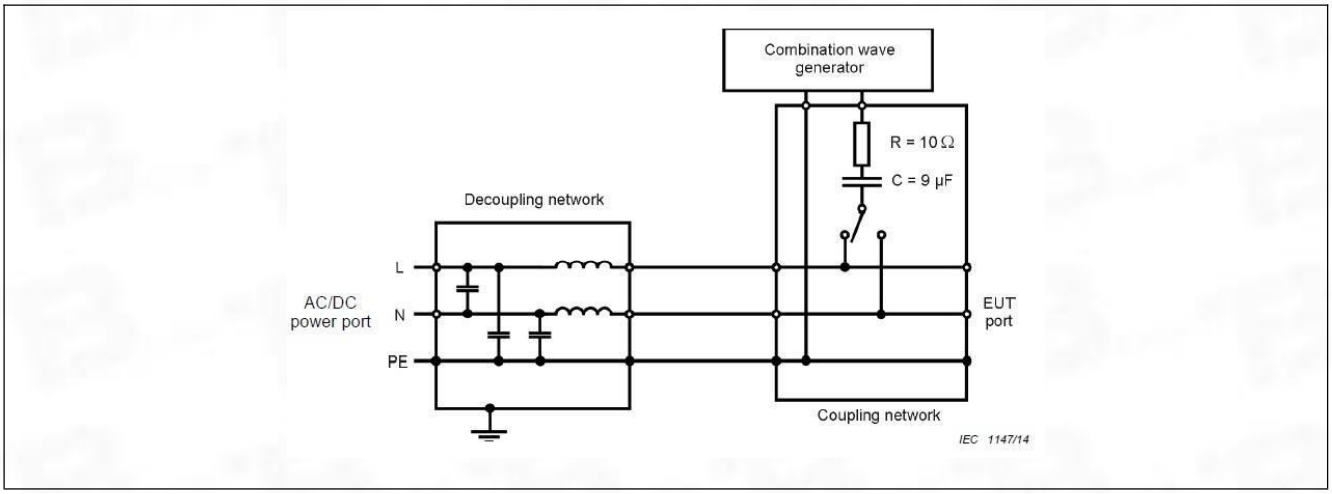
6.4 Surges on Input and output AC power ports

Test Requirement:	Table 4.4
Test Method:	IEC 61000-4-5
Procedure:	Interval: 60s between each surge No. of surges: 5 positive, 5 negative at 0°, 90°, 180°, 270°. Test Level: Line to Earth ±0.5kV, ±1kV, ±2kV Line to Line ±0.5kV, ±1kV
Performance Criteria:	B

6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.9 °C
Humidity:	53 %
Atmospheric Pressure:	1010 mbar

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Note: The DC products are not applicable.

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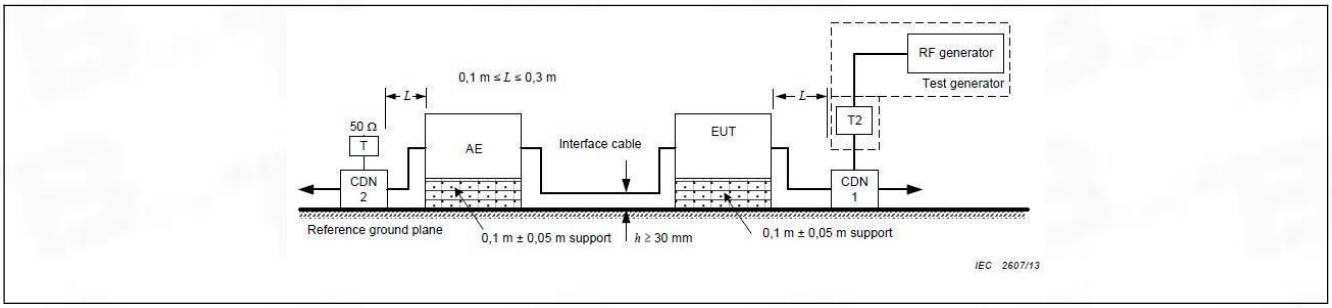
6.5 Radio-frequency common mode-Input and output AC power ports

Test Requirement:	Table 4.1
Test Method:	IEC 61000-4-6
Procedure:	Frequency Range: 0.15MHz to 80MHz Modulation: 80%, 1kHz Amplitude Modulation Step Size 1% Level:10V
Performance Criteria:	A

6.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.9 °C
Humidity:	53 %
Atmospheric Pressure:	1010 mbar

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Note: The DC products are not applicable.

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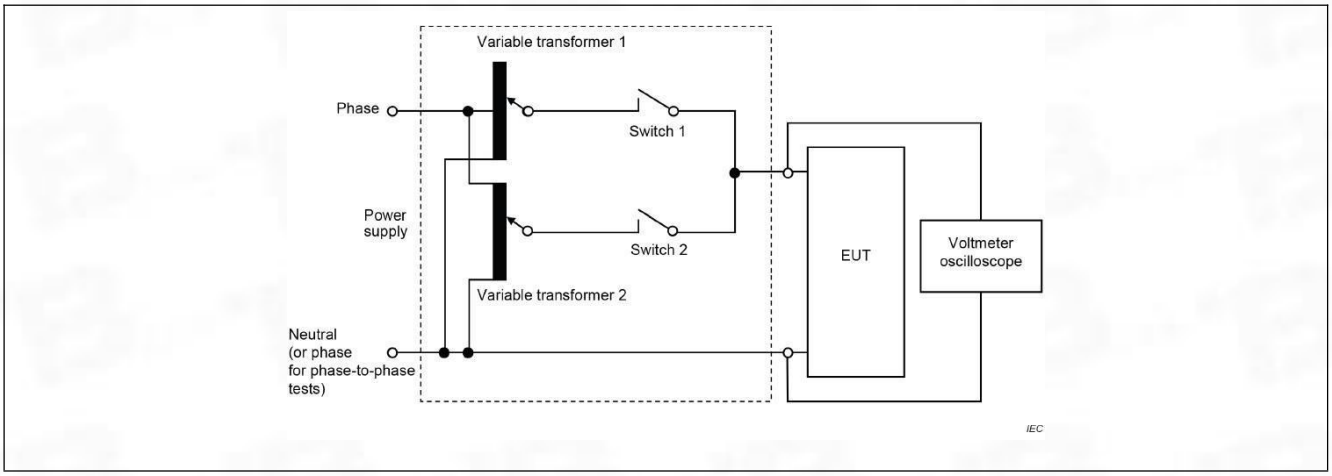
6.6 Voltage dips and Interruptions

Test Requirement:	Table 4.2 & 4.3
Test Method:	IEC 61000-4-11
Procedure:	0% of UT (Supply Voltage) for 1 Cycle:B; 40% of UT for 10/12 Cycle:C; 70% of UT for 25/30 Cycles:C; 0% of UT for 250/300 Cycles:C; No. of Dips / Interruptions: 3 per Level Time between dropout 10s
Performance Criteria:	0% of UT (Supply Voltage) for 1 Cycle: Performance criterion B; 40% of UT for 10/12 Cycle: Performance criterion C; 70% of UT for 25/3 0 Cycles: Performance criterion C; 0% of UT for 250/300 Cycles: Performance criterion C;

6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	23.9 °C
Humidity:	53 %
Atmospheric Pressure:	1010 mbar

6.6.2 Test Setup Diagram:



6.6.3 Test Data:

Note: The DC products are not applicable.

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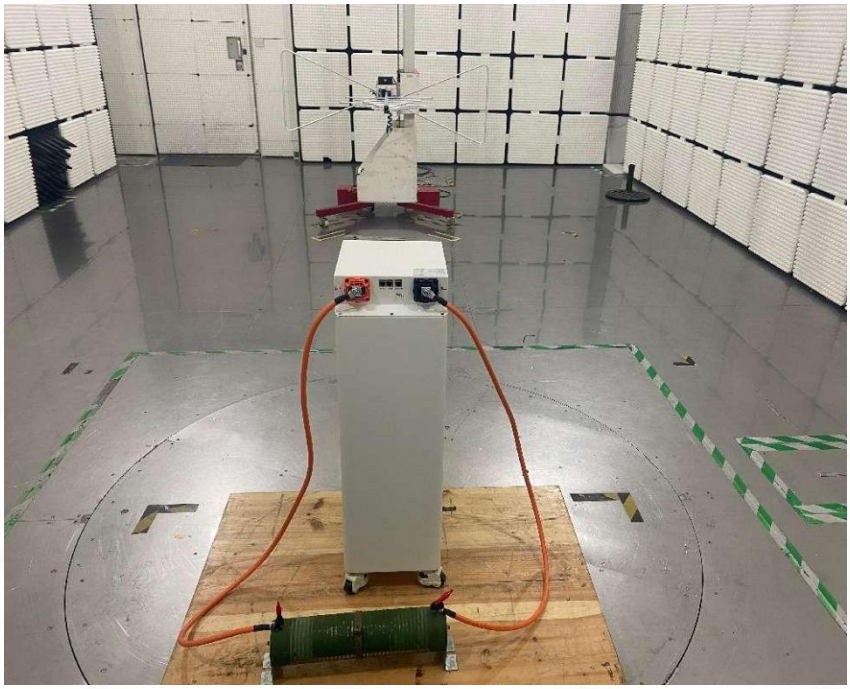
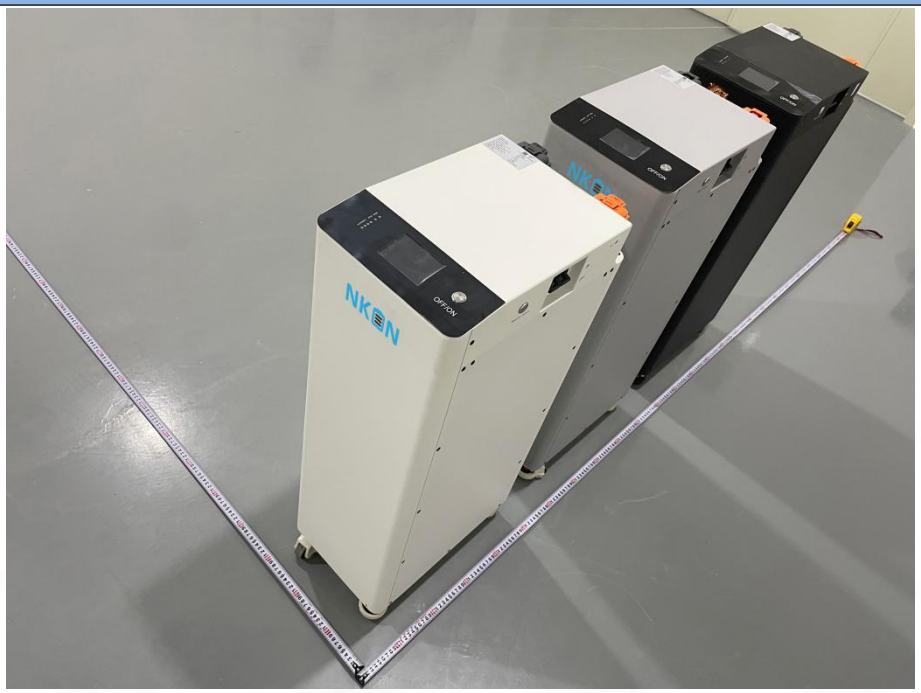
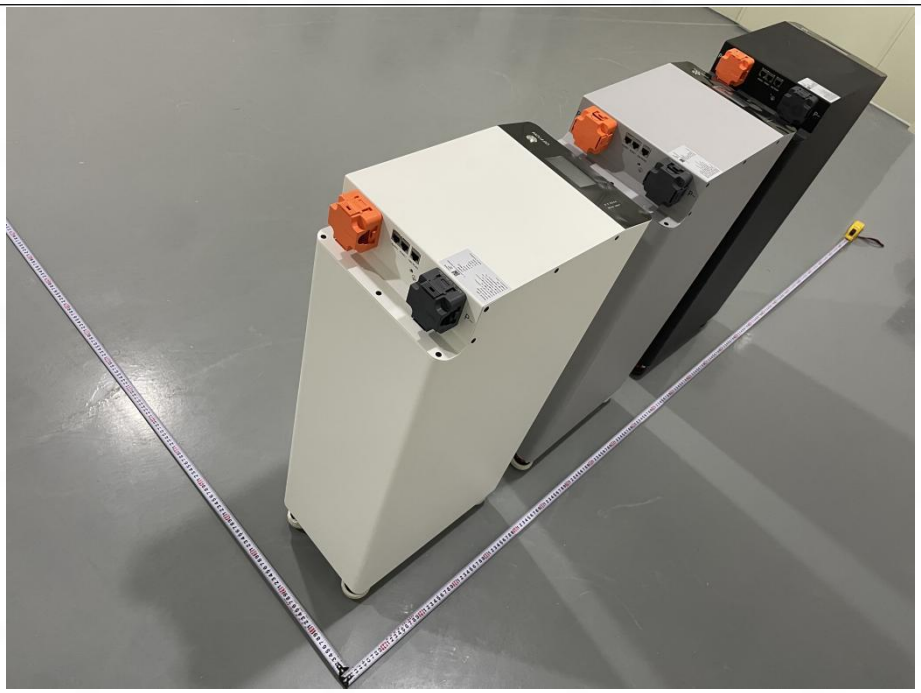
7 Test Setup Photos

Radiation disturbance (30MHz-1GHz)

Electrostatic discharge


8 EUT Constructional Details (EUT Photos)

External



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RUN ALM CAPACITY
OFF/ON


ESS Pro 16kWh
Nominal Energy:51.2V/314Ah/16.0768KWh
Cell chemistry:LiFeP04
Communicaton Interface:CAN,RS485
Cherge Voltage(V):58.4V
Max,Charge/Dis charge Current:200A
Charge Temperature(C):0-40℃
Discharge Temperature(C):-10~40℃
StorageTemperatute(C):-20~45℃
Weight(KG):119.5KG
Dimension(mm): 898*415*260mm
CE
UN38.3
ESS Pro 16kWh
250828
0001

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-- END OF REPORT --