EMC TEST REPORT

For

Shenzhen PCHNE Technology Co., Ltd.

Power Wall LiFePO4 Battery

Test Model: M16S100BL-U

Serial models: (Refer to page 7)

Prepared for	:	**Shenzhen PCHNE Technology Co., Ltd.**
Address	:	3/F, C Building, Fuxinlin Industry Park, Hangcheng Industrial Zone, Fuhua Community, Xixiang Street, Bao'an District, Shenzhen, China

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Date of receipt of test sample	:	June 30, 2022
Date of Test	:	June 30, 2022 ~ July 13, 2022
Date of Report	:	July 13, 2022

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EMC TEST REPORT

EN 55032: 2015+ A11: 2020+ A1: 2020
EN 55035: 2017+ A1: 2020
EN IEC 61000-3-2: 2019+ A1: 2021
EN 61000-3-3: 2013+ A1: 2019+ A1: 2021

Report Reference No. ..... :	**STE22070517E**
Date Of Issue .....:	July 13, 2022
Testing Laboratory Name..... :	**Shenzhen STE Testing Laboratory Co., Ltd**
Testing Location/ Address .....:	3/F, Building 9, Dehong Factory Building, No. 63 Yuchang Road, Niuhu Community, Guanlan Street, Longhua District, Shenzhen, China
Applicant's Name..... :	**Shenzhen PCHNE Technology Co., Ltd.**
Address.....:	3/F, C Building, Fuxinlin Industry Park, Hangcheng Industrial Zone, Fuhua Community, Xixiang Street, Bao'an District, Shenzhen, China
Manufacturer's Name ..... :	**Dongguan Branch of Shenzhen PCHNE Technology Co., Ltd.**
Address.....:	Room 101, Building 2, No. 1, Changxing Rood, Ludong Community, Humen Town, Dongguan City, Guangdong Province, China
Test Specification:	
Standard.....:	EN 55032: 2015+ A11: 2020+ A1: 2020; EN 55035: 2017+ A1: 2020; EN IEC 61000-3-2: 2019+ A1: 2021; EN 61000-3-3: 2013+ A1: 2019+ A1: 2021

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Test Item Description..... :	**Power Wall LiFePO4 Battery**
Trade Mark.....:	N/A
Test Model.....:	M16S100BL-U
Serial Models .....:	(Refer to page 7)
Ratings.....:	51.2VDC, 100Ah
Result ..... :	**Pass**

Compiled by:	**Supervised by:**	**Approved by:**
Hunter Liang	Todd Qian	Fly Li
Hunter Liang/ File administrators	Todd Qian/ Technique principal	Fly Li/ Manager

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Test Report Description Page

1. SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION TESTS (EN 55032)			
Description of Test Item	**Standard**	**Limits**	**Results**
Conducted disturbance	EN 55032: 2015+ A11: 2020+ A1: 2020	Class B	N/A
Radiated disturbance	EN 55032: 2015+ A11: 2020+ A1: 2020	Class B	PASS
Harmonic current emissions	EN IEC 61000-3-2: 2019+ A1: 2021	Class A	N/A
Voltage fluctuations & flicker	EN 61000-3-3: 2013+ A1: 2019	--	N/A
IMMUNITY TESTS (EN 55035)			
Description of Test Item	**Basic Standard**	**Performance Criteria**	**Results**
Electrostatic discharge (ESD)	EN 61000-4-2: 2009	B	PASS
Radio-frequency, Continuous radiated disturbance	EN IEC 61000-4-3: 2020	A	PASS
Electrical fast transient (EFT)	EN 61000-4-4: 2012	B	N/A
Surge (Input a.c. power ports)	EN 61000-4-5: 2014+ A1: 2017	B	N/A
Surge (Telecommunication ports)		B	N/A
Radio-frequency, Continuous conducted disturbance	EN 61000-4-6: 2018	A	N/A
Power frequency magnetic field	EN 61000-4-8: 2010	A	PASS
Voltage dips, >95% reduction	EN IEC 61000-4-11: 2020	B	N/A
Voltage dips, 30% reduction		C	N/A
Voltage interruptions		C	N/A
N/A is an abbreviation for Not Applicable.			

1.2 Description of Performance Criteria

General Performance Criteria

Examples of functions defined by the manufacturer to be evaluated during testing include, but are not limited to, the following:

— essential operational modes and states;
— tests of all peripheral access (hard disks, floppy disks, printers, keyboard, mouse, etc.);
— quality of software execution;
— quality of data display and transmission;
— quality of speech transmission.

1.2.1 Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacture 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 deriver from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.2 Performance criterion B

After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacture, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

During the test, degradation of performance is allowed. However, no change of operation state or stored data is allowed to persist after the test.

If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be deriver from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.3 Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacture's instructions.

Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be loss.

2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT	:	Power Wall LiFePO4 Battery
Trade mark	:	N/A
Test Model	:	M16S100BL-U
Serial Model No.	:	M16S40BL-U, M16S50BL-U, M16S60BL-U, M16S70BL-U, M16S80BL-U, M16S120BL-U, M16S150BL-U, M16S160BL-U, M16S180BL-U, M16S200BL-U, M15S40BL-U, M15S50BL-U, M15S60BL-U, M15S70BL-U, M15S80BL-U, M15S100BL-U, M15S120BL-U, M15S150BL-U, M15S160BL-U, M15S180BL-U, M15S200BL-U
Model Difference	:	All models are same except the appearance and capacity.
Power Supply	:	51.2VDC

Highest internal frequency (Fx)	Highest measured frequency
Fx ≤ 108 MHz 108 MHz < Fx ≤ 500 MHz 500 MHz < Fx ≤ 1 GHz Fx > 1 GHz	1 GHz 2 GHz 5 GHz 5 × Fx up to a maximum of 6 GHz
NOTE 1 For FM and TV broadcast receivers, Fx is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.	

Where Fx is unknown, the radiated emission measurements shall be performed up to 6 GHz.

2.2 Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Normal Load

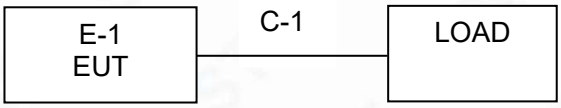
For Conducted Test	
Final Test Mode	Description
Mode 1	Normal Load

For Radiated Test	
Final Test Mode	Description
Mode 1	Normal Load

For EMS Test	
Final Test Mode	Description
Mode 1	Normal Load

2.3 Description of Test Setup

Mode 1:



2.4 Description Test Peripheral and EUT Peripheral

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Power Wall LiFePO4 Battery	N/A	M16S100BL-U	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	80cm	DC wires

Note:
(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.
(3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

2.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc.

To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the STE quality system according to ISO/ IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.6 Measurement Uncertainty

Test Item	Frequency Range	Expanded uncertainty (Ulab)	Expanded uncertainty (Ucispr)
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Power disturbance	Level accuracy (30MHz to 300MHz)	± 2.90dB	± 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 3.60 dB	± 3.3 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB
Mains Harmonic	Voltage	± 0.510%	N/A
Voltage Fluctuations & Flicker	Voltage	± 0.510%	N/A
EMF		± 21.59%	N/A

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1 Radiated Disturbance (Electric Field)

Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	3m Semi Anechoic Chamber	Maorui	/	/	2022-06-09	2023-06-08
2	EMI Test Receiver	ROHDE & SCHWARZ	ESR 3	102312	2022-06-09	2023-06-08
3	Log per Antenna	ROHDE & SCHWARZ	VULP9118	873	2022-06-09	2023-06-08
4	EMI Test Software	Farad	EMC	N/A	/	/
5	Positioning Controller	MF	MF-7082	/	2020-06-16	2023-06-16

3.2 Electrostatic Discharge

Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	ESD Simulator	TESEQ	NSG 437	1615	2022-03-10	2023-03-10

3.3 RF Field Strength Susceptibility

Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	SIGNAL GENERATOR	R&S	SMB100A	105942	2022-03-10	2023-03-10
2	RF Power Amplifier	BONN Elektronik	BLWA0830-160/100/40D	128740	2022-03-10	2023-03-10
3	Log-periodic Antenna	SCHWARZBECK	STLP9128D	043	2022-03-10	2023-03-10
4	Power Meter	R&S	102031	16829	2022-03-10	2023-03-10

3.4 Power Frequency Magnetic Field Susceptibility

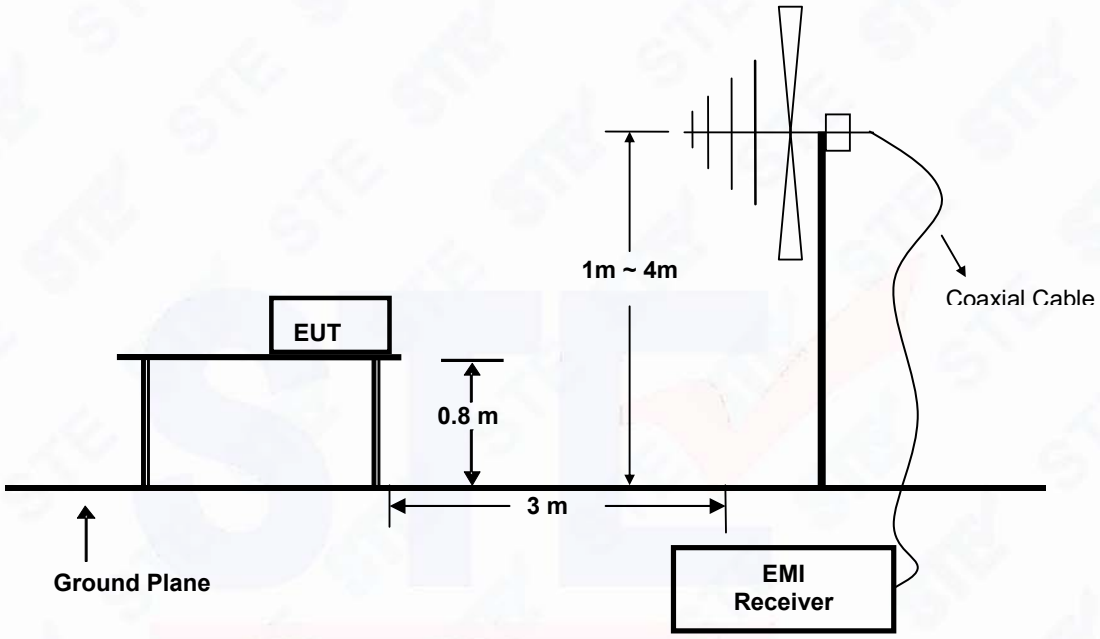
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Simulator	FRANKONIA	CIT-10	A126A1195	2022-06-09	2023-06-08
2	CDN	FRANKONIA	CDN-M2	5100100100	2022-06-09	2023-06-08
3	CDN	FRANKONIA	CDN-M3	0900-11	2022-06-09	2023-06-08
4	Attenuator	FRANKONIA	ATT6	0010222A	2022-06-09	2023-06-08
5	Infuse tongs	EMTEST	EM-Clamp	0513A031201	2022-06-09	2023-06-08

4. EMISSION TESTS

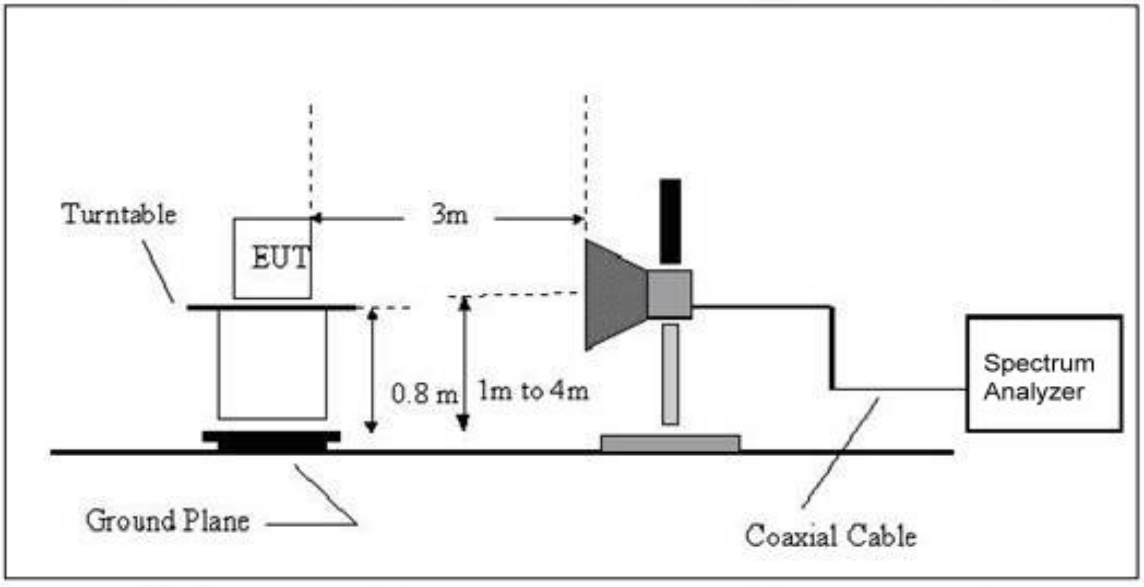
4.1 Radiated emission measurement

4.1.1 Block Diagram of Test Setup

1, Below 1 GHz



2, Above 1 GHz



4.1.2 Measuring Standard

EN 55032: 2015+ A11: 2020+ A1: 2020

4.1.3 Radiated Emission Limits

All emanations from a class device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

1, LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

FREQUENCY (MHz)	Class A		Class B	
	At 10m	At 3m	At 10m	At 3m
	dBuV/m	dBuV/m	dBuV/m	dBuV/m
30 – 230	40	50	30	40
230 – 1000	47	57	37	47

2, LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (at 3m) dBuV/m		Class B (at 3m) dBuV/m	
	Peak	Avg	Peak	Avg
1000-3000	76	56	70	50
3000-6000	80	60	74	54

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.
(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

4.1.4 EUT Configuration on Test

The EN 55032 regulations test method must be used to find the maximum emission during radiated emission measurement.

4.1.5 Operating Condition of EUT

1.Turn on the power.
2.Let the EUT work in test mode and measure it.

4.1.6 Test Procedure

The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. By-log antenna (calibrated by

Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the Receiver is set at 120kHz.

All the scanning waveform is in next page.

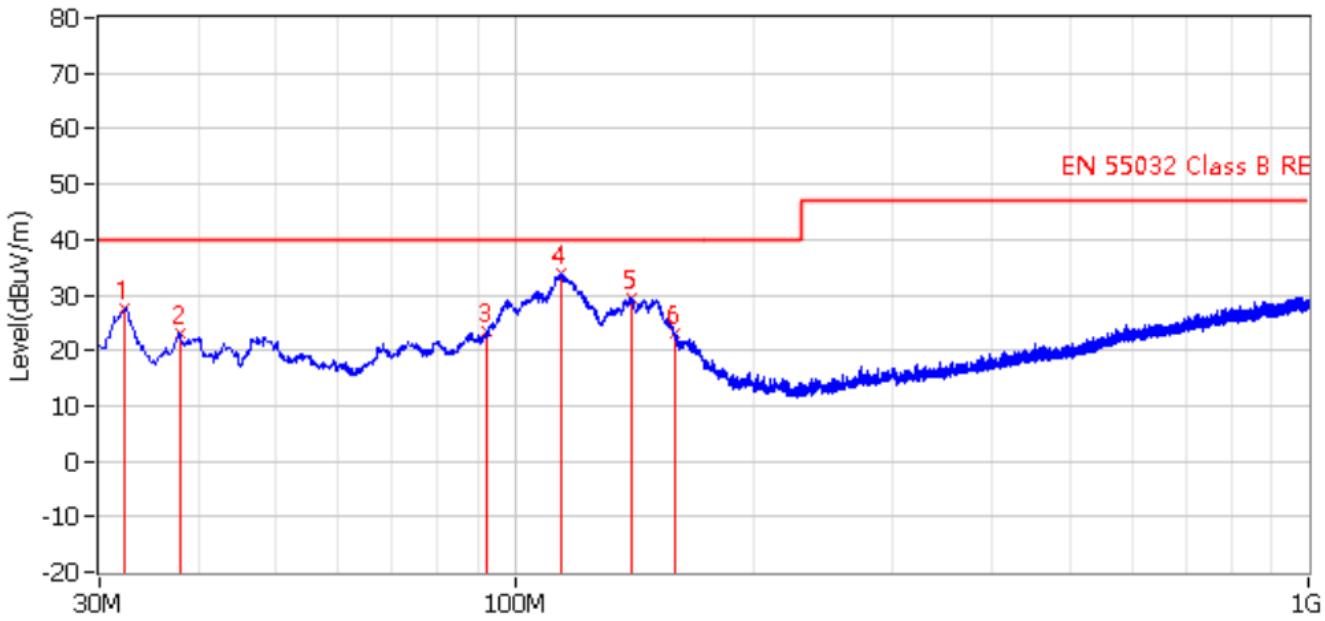
4.1.7 Test Results

PASS.

The scanning waveforms are in the next page.

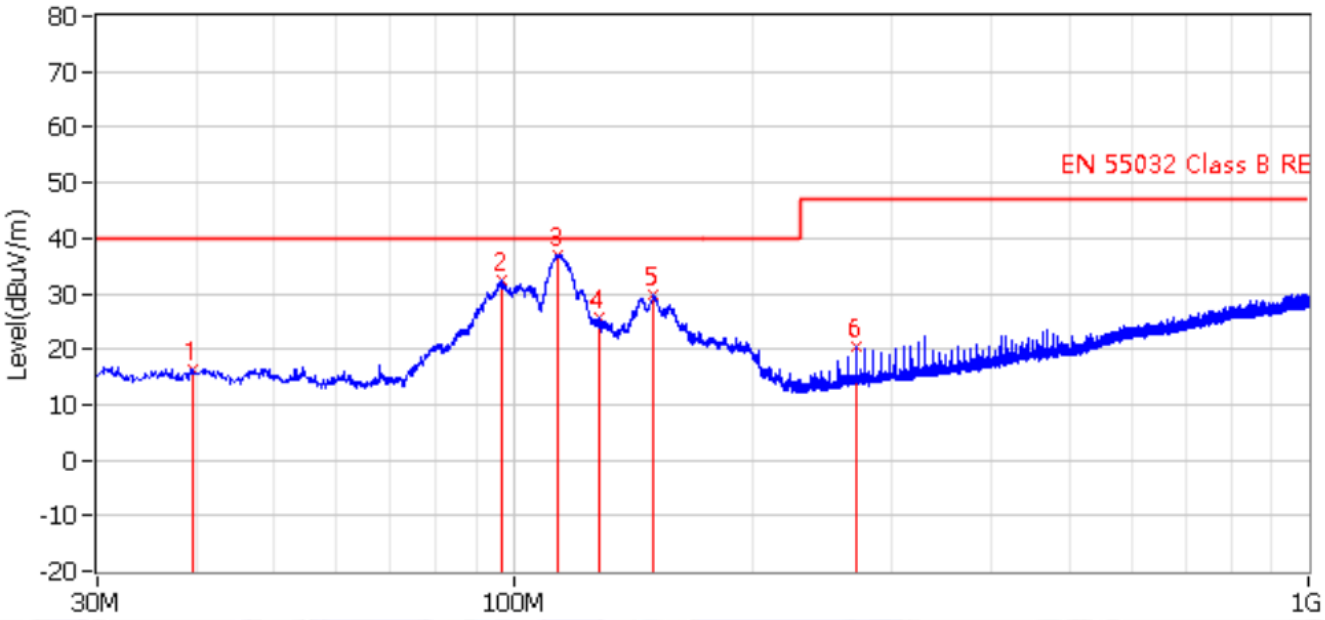
4.1.8 TEST RESULTS (Below 1000MHz)

Model No. (M/N):	M16S100BL-U	Test Mode:	Mode 1
Environmental Conditions:	24.1℃, 57.5% RH	Detector Function:	Quasi-peak
Distance:	3m	Polarization:	Vertical
Test Engineer:	Feng Liang	Test Voltage:	51.2VDC



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	32.304 MHz	40.0	27.5	-12.5	15.7	PK	Ver	100.0	153.0
2*	37.881 MHz	40.0	23.0	-17.0	16.2	PK	Ver	100.0	153.0
3*	92.444 MHz	40.0	23.5	-16.5	11.8	PK	Ver	100.0	216.0
4*	114.390 MHz	40.0	34.0	-6.0	13.6	PK	Ver	100.0	190.0
5*	140.095 MHz	40.0	29.5	-10.5	15.2	PK	Ver	100.0	142.0
6*	158.889 MHz	40.0	23.1	-16.9	16.0	PK	Ver	100.0	153.0

Model No. (M/N):	M16S100BL-U	Test Mode:	Mode 1
Environmental Conditions:	24.1℃, 57.5% RH	Detector Function:	Quasi-peak
Distance:	3m	Polarization:	Horizontal
Test Engineer:	Feng Liang	Test Voltage:	51.2VDC



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	39.458 MHz	40.0	16.3	-23.7	16.4	PK	Hor	200.0	270.0
2*	96.809 MHz	40.0	32.6	-7.4	12.1	PK	Hor	200.0	291.0
3*	113.541 MHz	40.0	37.0	-3.0	13.5	PK	Hor	200.0	297.0
4*	128.576 MHz	40.0	25.8	-14.2	14.7	PK	Hor	200.0	75.0
5*	150.401 MHz	40.0	29.8	-10.2	16.0	PK	Hor	200.0	321.0
6*	269.954 MHz	47.0	20.5	-26.5	14.7	PK	Hor	200.0	280.0

4.1.9 TEST RESULTS (1000~6000MHz)

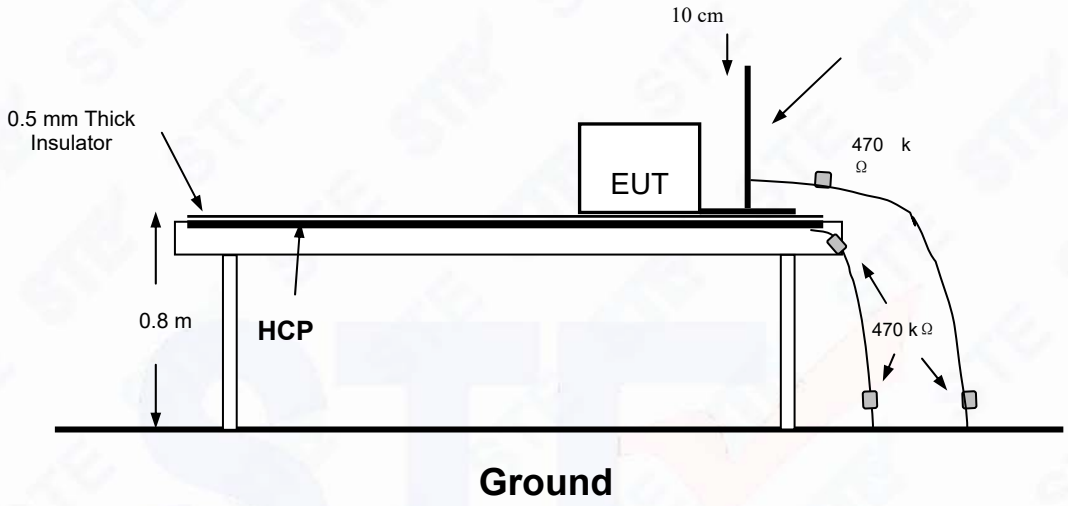
Model No. (M/N):	M16S100BL-U	Test Mode:	Mode 1
Environmental Conditions:	24.1℃, 57.5% RH	Detector Function:	N/A
Distance:	3m	Polarization:	N/A
Test Engineer:	N/A	Test Voltage:	N/A

Remark:
The frequency of the product is lower than 108MHz, it does not apply

5. IMMUNITY TESTS

5.1 ELECTROSTATIC DISCHARGE IMMUNITY TEST

5.1.1 Block Diagram of Test Setup



5.1.2 Test Standard

EN 55035:2019 (EN 61000-4-2: 2009,
Severity Level: 3 / Air Discharge: ±8KV, Level: 2 / Contact Discharge: ±4KV)

5.1.3 Severity Levels and Performance Criterion

1. Severity level

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

2. Performance Criterion: B

5.1.4 EUT Configuration on Test

The configuration of EUT is listed in Section 3.2.

5.1.5 Operating Condition of EUT

Same as Radiated emission measurement which is listed in Section 4.1.5.
Except the test set up replaced by Section 5.1.1.

5.1.6 Test Procedure

(1) 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 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

(2) Contact Discharge

All the procedure shall be same as Section 5.1.6(1). Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

(3) 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.

(4) 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.

5.1.7 Test Results

PASS.

Please refer to the following pages

ESD Test Results

Standard	☐ IEC 61000-4-2 ☑ EN 61000-4-2		
Applicant	Shenzhen PCHNE Technology Co., Ltd.		
EUT	Power Wall LiFePO4 Battery	Temperature	24.1℃
M/N	M16S100BL-U	Humidity	55.9%
Criterion	B	Pressure	1021mbar
Test Mode	MODE 1	Test Engineer	Feng Liang

Air Discharge

Test Points	Test Levels			Results		
	± 4kV	± 8kV	± 10kV	Passed	Fail	Performance Criterion
Front	☒	☒	☐	☒	☐	☐A ☒B
Back	☒	☒	☐	☒	☐	☐A ☒B
Left	☒	☒	☐	☒	☐	☐A ☒B
Right	☒	☒	☐	☒	☐	☐A ☒B
Top	☒	☒	☐	☒	☐	☐A ☒B
Bottom	☒	☒	☐	☒	☐	☐A ☒B

Contact Discharge

Test Points	Test Levels		Results		
	± 2 kV	±4 kV	Passed	Fail	Performance Criterion
Front	☒	☒	☒	☐	☐A ☒B
Back	☒	☒	☒	☐	☐A ☒B
Left	☒	☒	☒	☐	☐A ☒B
Right	☒	☒	☒	☐	☐A ☒B
Top	☒	☒	☒	☐	☐A ☒B
Bottom	☒	☒	☒	☐	☐A ☒B

Discharge To Horizontal Coupling Plane

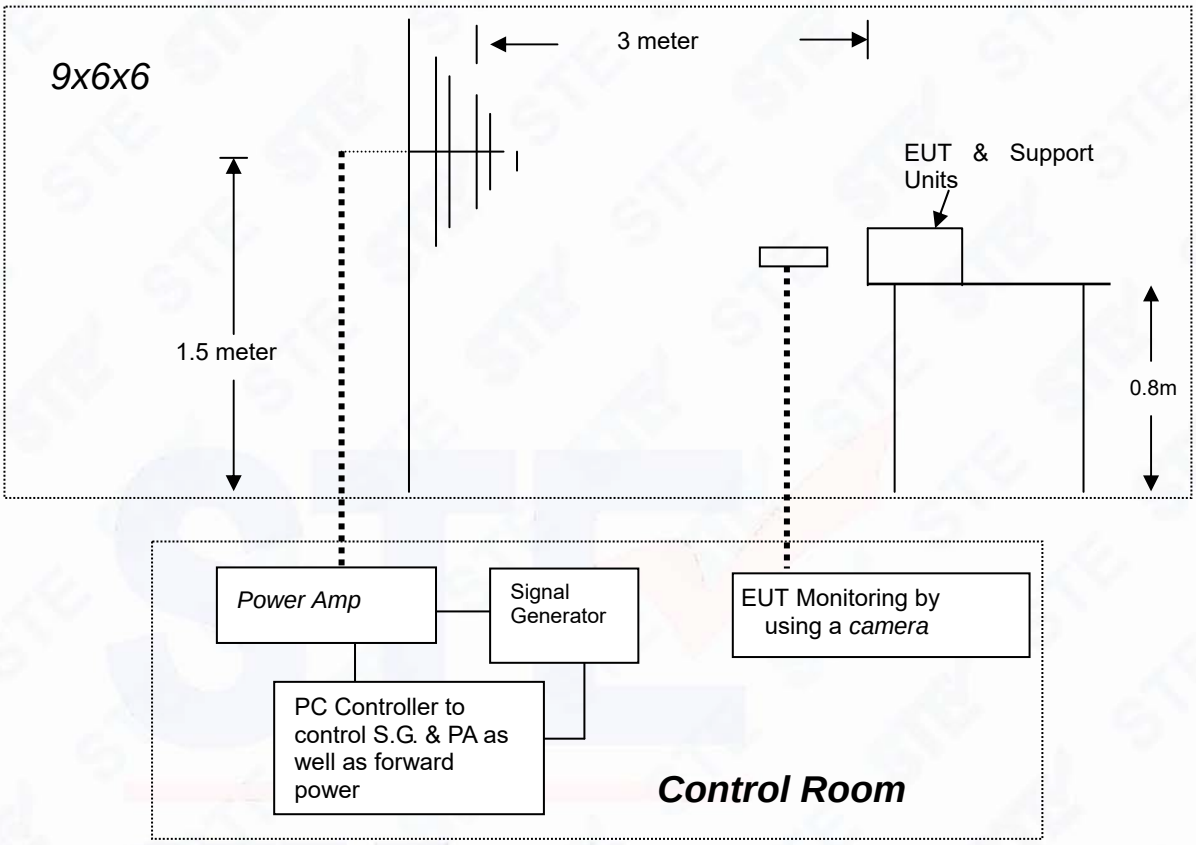
Side of EUT	Test Levels		Results		
	± 2 kV	± 4 kV	Passed	Fail	Performance Criterion
Front	☒	☒	☒	☐	☐A ☒B
Back	☒	☒	☒	☐	☐A ☒B
Left	☒	☒	☒	☐	☐A ☒B
Right	☒	☒	☒	☐	☐A ☒B

Discharge To Vertical Coupling Plane

Side of EUT	Test Levels		Results		
	± 2 kV	± 4 kV	Passed	Fail	Performance Criterion
Front	☒	☒	☒	☐	☐A ☒B
Back	☒	☒	☒	☐	☐A ☒B
Left	☒	☒	☒	☐	☐A ☒B
Right	☒	☒	☒	☐	☐A ☒B

5.2 RF FIELD STRENGTH SUSCEPTIBILITY TEST

5.2.1 Block Diagram of Test Setup



5.2.2 Test Standard

EN 55035:2019
(EN IEC 61000-4-3, Severity Level: 2, 3V/ m)

5.2.3 Severity Levels and Performance Criterion

1. Severity Levels

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

2. Performance Criterion: A

5.2.4 EUT Configuration on Test

The configuration of the EUT is same as Section 3.

5.2.5 Operating Condition of EUT

Same as radiated emission measurement, which is listed in Section 4.1.5, except the test setup replaced as Section 5.2.1.

5.2.6 Test Procedure

The EUT are placed on a table, which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna, which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD Recording is used to monitor its screen.

All the scanning conditions are as following:

Condition of Test	Remark
1. Fielded Strength	3V/m (Severity Level 2)
2. Radiated Signal	Unmodulated
3. Scanning Frequency	80-6000MHz
4. Sweep time of radiated	0.0015 Decade/s
5. Dwell Time	3 Sec.

5.2.7 Test Results

PASS.

Please refer to the following page.

RF Field Strength Susceptibility Test Results

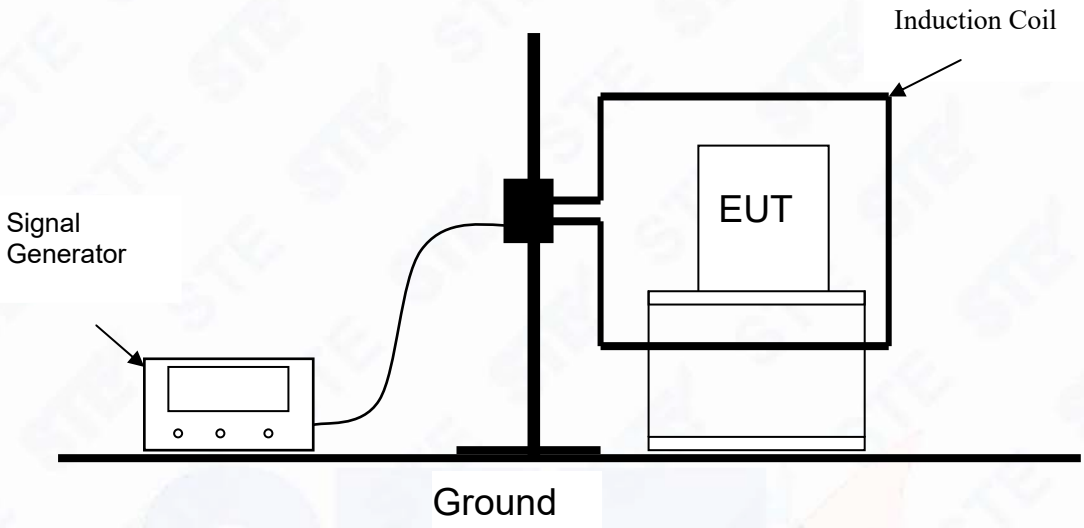
Standard	☐ IEC 61000-4-3 ☑ EN 61000-4-3		
Applicant	Shenzhen PCHNE Technology Co., Ltd.		
EUT	Power Wall LiFePO4 Battery	**Temperature**	23.7℃
M/N	M16S100BL-U	**Humidity**	59.8%
Field Strength	3 V/m	**Criterion**	A
Test Mode	Mode 1	**Test Engineer**	Feng Liang
Frequency Range	80 MHz to 6000 MHz		
Modulation	☐None ☐ Pulse ☑AM 1KHz 80%		
Steps	1%		

	Horizontal	**Vertical**
Front	PASS	PASS
Right	PASS	PASS
Rear	PASS	PASS
Left	PASS	PASS

Note:

5.3 MAGNETIC FIELD SUSCEPTIBILITY TEST

5.3.1 Block Diagram of Test Setup



5.3.2 Test Standard

EN 55035:2019

(EN 61000-4-8: 2010, Severity Level: Level 2, 3A/ m)

5.3.3 Severity Levels and Performance Criterion

1. Severity Levels

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

2. Performance Criterion: A

5.3.4 EUT Configuration on Test

The configuration of the EUT is same as Section 3.4.

5.3.5 Test Procedure

The EUT is placed in the middle of a induction coil (1*1m), under which is a 1*1*0.1m (high) table, this small table is also placed on a larger table, 0.8 m above the ground. Both horizontal and vertical polarization of the induction coil is set on test, so that each side of the EUT is affected by the magnetic field.

Also can reach the same aim by change the position of the EUT.

5.3.6 Test Results

PASS.

Please refer to the following page.

Magnetic Field Immunity Test Result

Standard	☐ IEC 61000-4-8 ☑ EN 61000-4-8		
Applicant	Shenzhen PCHNE Technology Co., Ltd.		
EUT	Power Wall LiFePO4 Battery	**Temperature**	23.9℃
M/N	M16S100BL-U	**Humidity**	56.1％
Test Mode	Mode 1	**Criterion**	A
Test Engineer	Feng Liang		

Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result
3	5 mins	X	A	PASS
3	5 mins	Y	A	PASS
3	5 mins	Z	A	PASS

Note:

6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

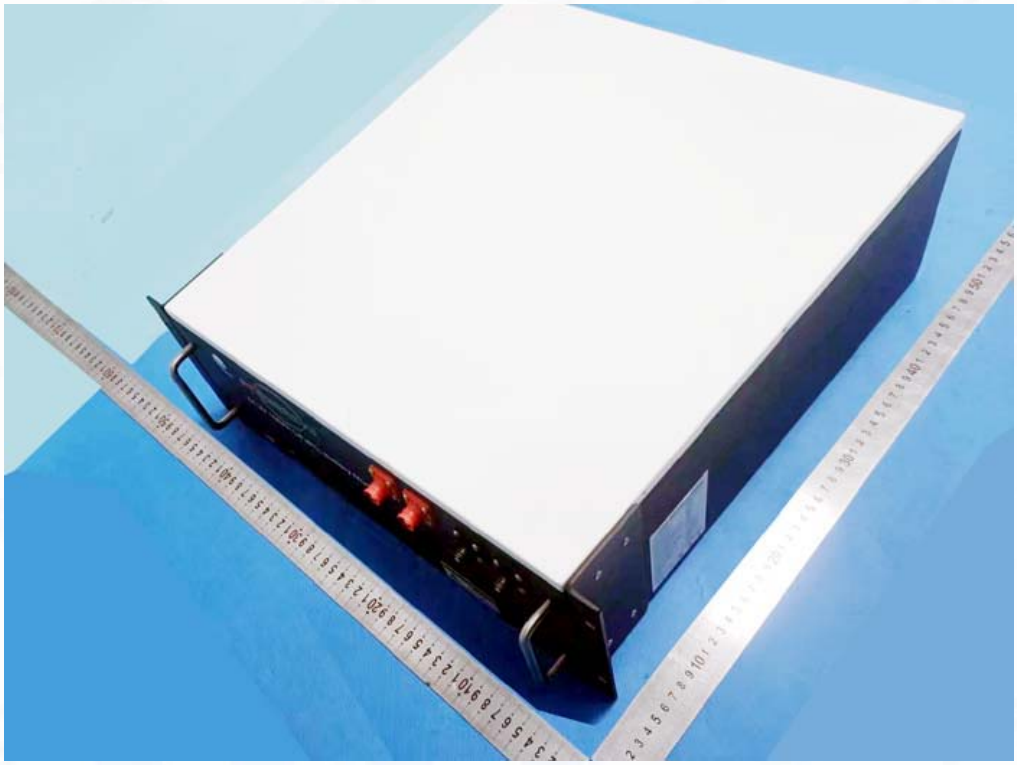


Fig. 1

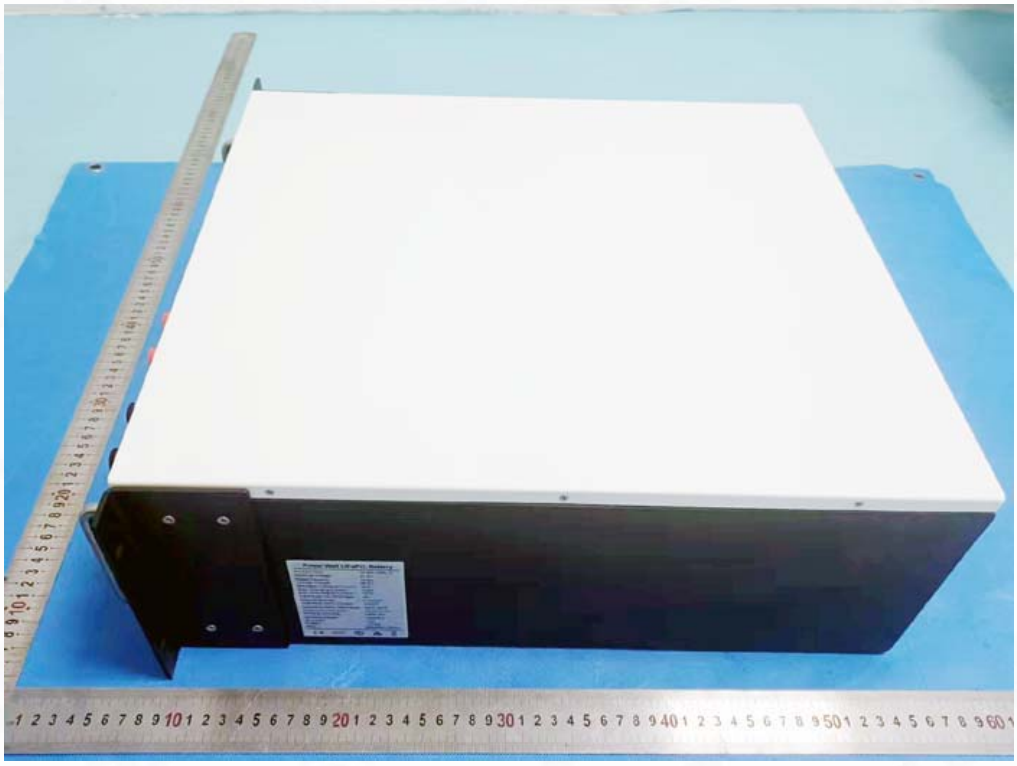


Fig. 2

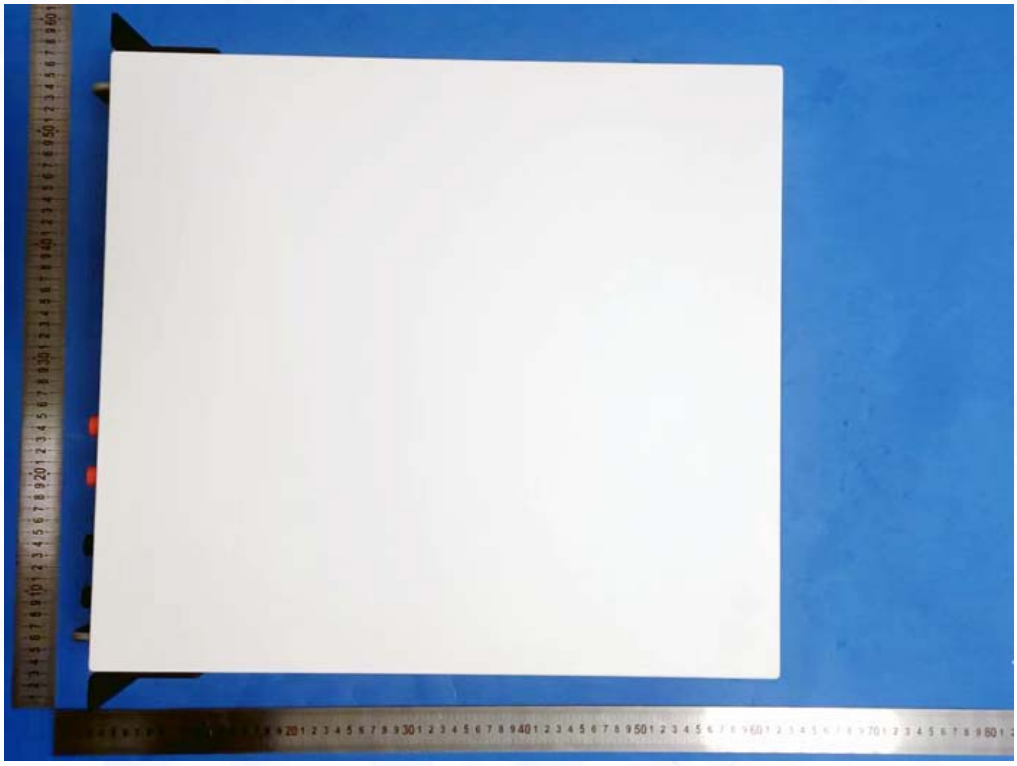


Fig. 3

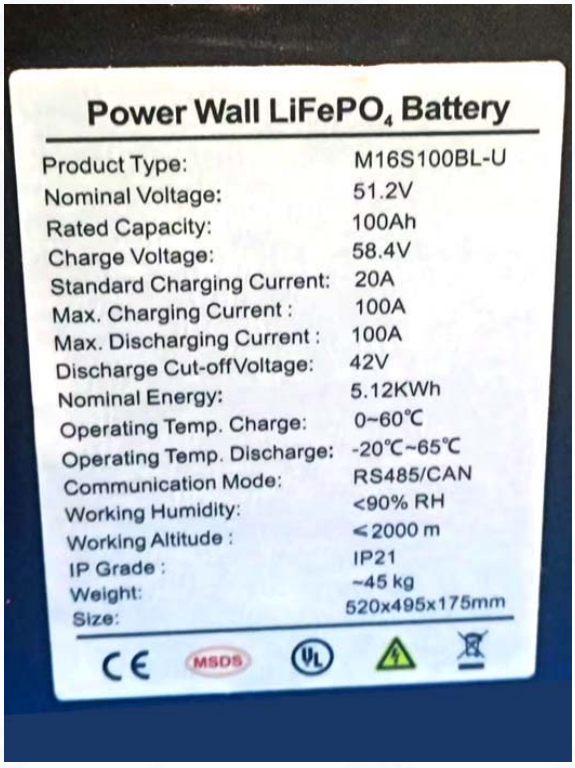

Power Wall LiFePO4 Battery
Product Type: M16S100BL-U
Nominal Voltage: 51.2V
Rated Capacity: 100Ah
Charge Voltage: 58.4V
Standard Charging Current: 20A
Max. Charging Current : 100A
Max. Discharging Current : 100A
Discharge Cut-offVoltage: 42V
Nominal Energy: 5.12KWh
Operating Temp. Charge: 0~60℃
Operating Temp. Discharge: -20℃~65℃
Communication Mode: RS485/CAN
Working Humidity: <90% RH
Working Altitude : ≤2000 m
IP Grade : IP21
Weight: ~45 kg
Size: 520x495x175mm
CE
MSDS

Fig. 4

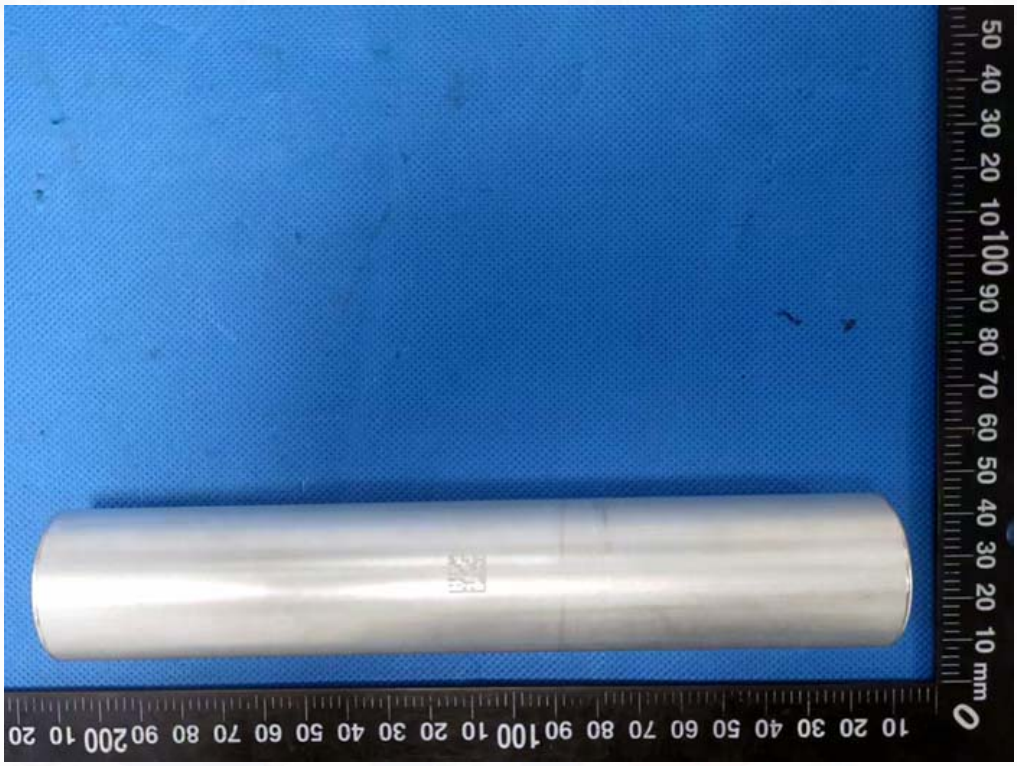


Fig. 5

---------- THE END OF TEST REPORT ----------