EMC TEST REPORT

For

SRNE Solar Co., Ltd.

Solar Charge Controller

Test Model: MC4870N15

Additional Model No.: Please Refer To Page 10 Model List

Prepared for : SRNE Solar Co., Ltd.

Address : 4-5F, 13A Wutong Island, Neihuan Rd, Xixiang, Bao'an,

Shenzhen, Guangdong, China

Prepared by : Shenzhen Southern LCS Compliance Testing Laboratory Ltd.
Address : 101-201, No.39 Building, Xialang Industrial Zone, Heshuikou

Community, Matian Street, Guangming District, Shenzhen, China

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Mail : webmaster@LCS-cert.com

Date of receipt of test sample : April 215, 2020

Number of tested samples : 1

Serial number : Prototype

Date of Test : April 15, 2020 ~ April 21, 2020

Date of Report : April 21, 2020



EMC TEST REPORT

EN 61000-6-3:2007/A1:2011/AC:2012

Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commerci al and light-industrial environments

EN IEC 61000-6-1: 2019

Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commerci al and light-industrial environments

Testing Laboratory Name.....: Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

Address: 101-201, No.39 Building, Xialang Industrial Zone, Heshuikou

Community, Matian Street, Guangming District, Shenzhen, China

Testing Location/ Procedure ...: Full application of Harmonised standards

Partial application of Harmonised standards

Other standard testing method

Applicant's Name: SRNE Solar Co., Ltd.

Address.....: 4-5F, 13A Wutong Island, Neihuan Rd, Xixiang, Bao'an, Shenzhen,

Guangdong, China

Test Specification

Standard.....: EN 61000-6-3:2007/A1:2011/AC:2012

EN IEC 61000-6-1: 2019

Test Report Form No.....: LCSEMC-1.0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF....: Dated 2016-08

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Test Item Description.....: Solar Charge Controller

Trade Mark: N/A

Test Model.....: MC4870N15

Ratings.....: See page 10 model list

Result: Positive

....

Compiled by:

Supervised by:

Aimee Varg

Dm Gu/ Technique principal

my

Cherry Chen/ Manager

Aimee Yang/ File administrators

EMC -- TEST REPORT

 Test Report No.:
 LCS200415006BE
 April 21, 2020

 Date of issue

Test Model..... : MC4870N15 EUT..... : Solar Charge Controller Applicant..... : SRNE Solar Co., Ltd. : 4-5F, 13A Wutong Island, Neihuan Rd, Xixiang, Bao'an, Address..... Shenzhen, Guangdong, China : / Telephone..... : / Fax..... : SRNE Solar Co., Ltd. Manufacturer..... : 4-5F, 13A Wutong Island, Neihuan Rd, Xixiang, Bao'an, Address..... Shenzhen, Guangdong, China Telephone..... Fax..... : / : SRNE Solar Co., Ltd Factory..... : Room 401, building 2, no. 10, xinju road, chengjiao village, Address..... chang'an, dongguan, guangdong Telephone..... : / : / Fax.....

Test Result Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	April 21, 2020	Initial Issue	Cherry Chen

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Shenzhen Southern LCS Compliance Testing Laboratory Ltd.	Report No.: LCS200415006BE
1. TEST STANDARDS	
The tests were performed according to following standards:	
EN 61000-6-3:2007/A1:2011/AC:2012 Emission standard for reside	ential, commercial and light-industrial
environments	
EN IEC 61000-6-1: 2019 Immunity for residential, commercial and	light-industrial environments

2.SUMMARY OF STANDARDS AND RESULTS

2.1. Description of Standards and Results

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

Emission (EN 61000-6-3:2007/A1:2011/AC:2012)						
Description of Test Item	Standard	Limits	Results			
Conducted disturbance at mains terminals	EN 55032: 2015	Class B	N/A			
Conducted disturbance at telecommunication port	EN 55032: 2015	Class B	N/A			
Radiated disturbance	EN 55032: 2015	Class B	PASS			
Harmonic current emissions	EN 61000-3-2: 2014	Class A	N/A			
Voltage fluctuations & flicker	EN 61000-3-3: 2013		N/A			
	Immunity (EN IEC 61000-6-1: 2)					
Description of Test Item	Basic Standard	Performance Criteria	Results			
Electrostatic discharge (ESD)	EN 61000-4-2: 2009	В	PASS			
Radio-frequency, Continuous radiated disturbance	EN 61000-4-3: 2006+A2: 2010	A	PASS			
Electrical fast transient (EFT)	EN 61000-4-4: 2012	В	N/A			
Surge (Input a.c. power ports)	EN 61000-4-5: 2014+A1: 2017	В	N/A			
Surge (Telecommunication ports)	EN 01000-4-3: 2014+A1: 2017	В	N/A			
Radio-frequency, Continuous conducted disturbance	EN 61000-4-6: 2014	A	N/A			
Power frequency magnetic field	EN 61000-4-8: 2010	A	PASS			
Voltage dips, >95% reduction	EN (1000 4.11, 2004, 41, 2017	В	N/A			
Voltage dips, 30% reduction	EN 61000-4-11: 2004+A1: 2017	С	N/A			
Voltage interruptions		С	N/A			
***Note: N/A is an abbreviation for Not Applicable.						

Test mode:		
Mode 1	Charging	Record

2.2. 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.

2.2.1. 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.

2.2.2. 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.

2.2.3. 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.

3. GENERAL INFORMATION

3.1. Description of Device (EUT)

EUT : Solar Charge Controller

Trade Mark : N/A

Test Model : MC4870N15

Additional Model : See page 10 model list

Power Supply : See page 10 model list

EUT Clock Frequency : ≤108MHz

3.2. Description of Test Facility

EMC Lab. : TUV RH Registration Number. is UA 50418075 0001.

UL Registration Number. is 100571-492. NVLAP Registration Code is 600112-0.

Test Facilities . Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

101-201, No.39 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China

RF Field . Shenzhen LCS Compliance Testing Laboratory Ltd.

Strength 101, 201 Building A and 301 Building C, Juji Industrial Park,

Susceptibility Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, Guangdong,

China.

3.3. 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 LCS quality system acc. To DIN EN 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.

3.4. Measurement Uncertainty

Test	Parameters	Expanded uncertainty (Ulab)	Expanded uncertainty (Ucispr)	
Conducted Disturbance	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 1.40 dB ± 2.80 dB	± 4.0 dB ± 3.6 dB	
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 3.46 dB	N/A	
Radiated Disturbance	Level accuracy (9kHz to 30MHz)	± 3.12 dB	N/A	
Radiated Disturbance	Level accuracy (30MHz to 200MHz)	± 4.66 dB	± 5.2 dB	
Radiated Disturbance	Level accuracy (200MHz to 1000MHz)	± 4.64 dB	± 5.0 dB	
Harmonic Current	Voltage	± 0.640%	N/A	
Voltage Fluctuations & Flicker	Voltage	± 0.530%	N/A	

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

3.5. Model List

Model	Rating
MC4860N15	Solar Input voltage:≤150V Input power:800W/12V;1600W/24V;3200W/48V
MC4870N15	Solar Input voltage:≤150V Input power:920W/12V;1840W/24V;3680W/48V

⁽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%.

4. MEASURING DEVICES AND TEST EQUIPMENT

Radiated Disturbance(30MHz to 300MHz)

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Due Date.
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-08-05
2	EMI Test Receiver	R&S	ESCI	101010	2020-06-20
3	Log per Antenna	SCHWARZBECK	VULB9163	5094	2020-06-23
4	EMI Test Software	AUDIX	E3	N/A	2020-06-20
5	Positioning Controller	MF	BK8807-4A-2T	2016-0808-008	2020-06-20

Electrostatic Discharge Immunity Test (ESD)

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Due Date.
1	ESD Simulator	KIKUSUI	KES4021	KC001311	2020-06-24

Power Frequency Magnetic Field Immunity Test

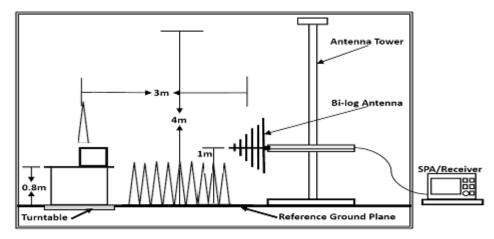
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Due Date.
1	Power frequency mag-field generator System	HTEC	HPFMF100	100-2400	2020-06-20

Radiated, Radio-Frequency, Electromagnetic Field Immunity Test (RS)-LCS

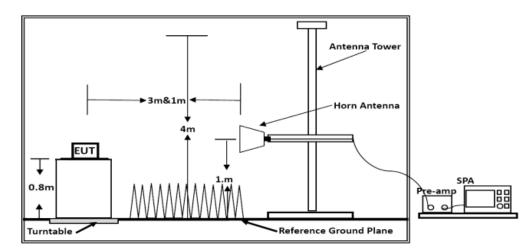
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Due Date.
1	RS Test Software	Tonscend	/	/	N/A
2	ESG Vector Signal Generator	Agilent	E4438C	MY42081396	2020-11-14
3	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2020-06-11
4	RF POWER AMPLIFIER	OPHIR	5225R	1052	2020-11-21
5	RF POWER AMPLIFIER	OPHIR	5273F	1019	2020-11-21
6	Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	2020-11-21
7	Stacked Mikrowellen LogPer Antenna	SCHWARZBECK	STLP 9149	9149-484	2020-11-21
8	RS Test Software	Tonscend	/	/	2021-03-25

5. RADIATED EMISSION MEASUREMENT

5. 1. Block Diagram of Test Setup



Below 1GHz



Above 1GHz

5.2 Test Standard

EN 61000-6-3:2007/A1:2011/AC:2012 (EN 55032: 2015) Class B

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

Limits for Radiated Emission Below 1GHz						
Frequency Distance Field Strengths Limit (MHz) (Meters) (dB μ V/m)						
30 ~ 230	3	42-35				
230 ~ 1000	3	42				

^{***}Note:

⁽²⁾ Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

Limits for Radiated Emission Above 1GHz							
Frequency Distance Peak Limit Average Limit							
(MHz)	(Meters)	(dBµV/m)	$(dB\mu V/m)$				
1000 ~ 3000	3	70	50				
3000 ~ 6000 3 74 54							

^{***}Note: The lower limit applies at the transition frequency.

5.3. EUT Configuration on Test

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

5.4. Operating Condition of EUT

- 5.4.1.Turn on the power.
- 5.4.2.Let the EUT work in the test Mode 1 and measure it.

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

The bandwidth of the EMI test receiver is set at RBW/VBW=120kHz/1000kHz.

The frequency range from 30MHz to 1000MHz is checked.

The bandwidth of the Spectrum analyzer is set at RBW/VBW=1MHz/3MHz.

The frequency range from 1GHz to the frequency which about 5th carrier harmonic or 6GHz is checked.

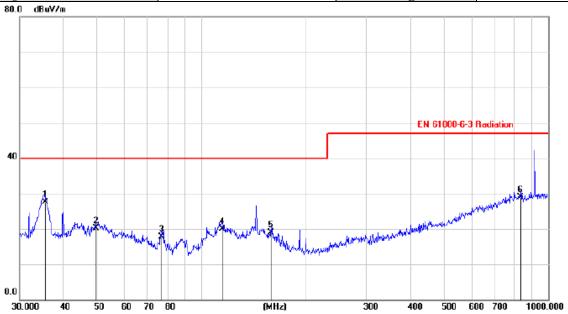
5. 6. Test Results

PASS.

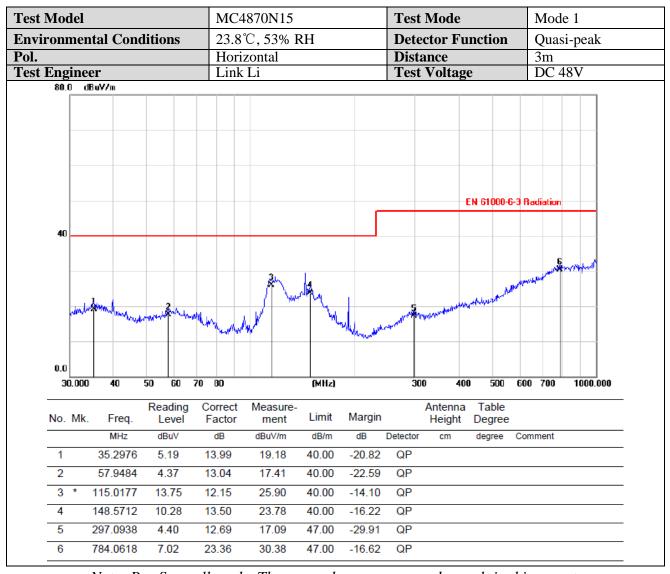
The test result please refer to the next page.

⁽¹⁾ The smaller limit shall apply at the combination point between two frequency bands.

Test Model	MC4870N15	Test Mode	Mode 1
Environmental Conditions	23.8℃, 53% RH	Detector Function	Quasi-peak
Pol.	Vertical	Distance	3m
Test Engineer	Link Li	Test Voltage	DC 48V



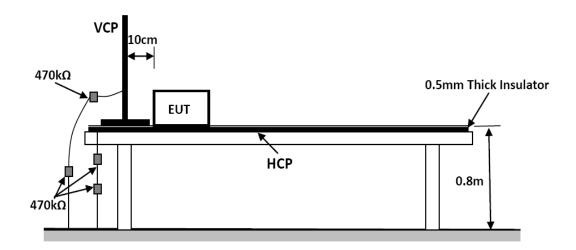
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	*	35.5460	13.49	14.00	27.49	40.00	-12.51	QP			
2		49.7722	6.99	13.15	20.14	40.00	-19.86	QP			
3		76.9156	7.65	10.00	17.65	40.00	-22.35	QP			
4		115.1690	7.76	12.16	19.92	40.00	-20.08	QP			
5		158.8765	5.78	13.16	18.94	40.00	-21.06	QP			
6		830.7642	5.28	23.63	28.91	47.00	-18.09	QP			



Note: Pre-Scan all mode, Thus record worse case mode result in this report.

6. ELECTROSTATIC DISCHARGE IMMUNITY TEST

6.1. Block Diagram of Test Setup



6.2. Test Standard

EN IEC 61000-6-1: 2019 (EN 61000-4-2: 2009, Severity Level: 3 / Air Discharge: ±8KV, Level: 2 / Contact Discharge: ±4KV)

6.3. Severity Levels and Performance Criterion

6.3.1. Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)	
1	±2	±2	
2	±4	<u>+4</u>	
3	±6	±8	
4	±8	±15	
X	Special	Special	

6.3.2. Performance Criterion

Performance Criterion: B

6.4. EUT Configuration on Test

The configuration of EUT is listed in Section 4.

6.5. Operating Condition of EUT

Same as conducted emission measurement, which is listed in Section 5.1.4. Except the test set up replaced by Section 5.4.1.

6.6. Test Procedure

6.6.1. 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

6.6.2. Contact Discharge

All the procedure shall be same as Section 5.4.6.1. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

6.6.3. 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.

6.6.4. 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.

6.7. Test Results

PASS.

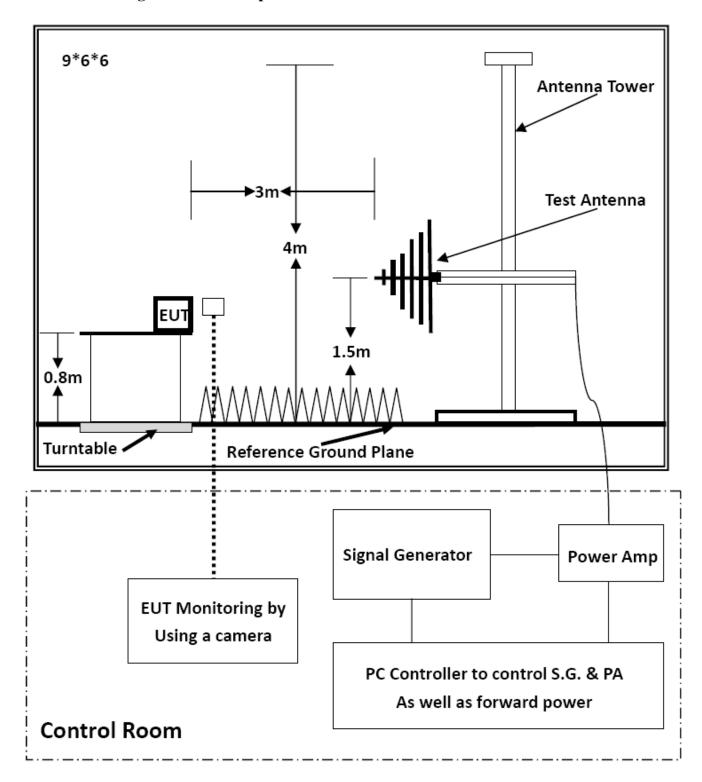
The test result please refer to the next page.

Electrostatic Discharge Test Results						
Standard	☐ IEC 61000-4-2 ☐ EN 61000-4-2					
Applicant	SRNE Solar Co., Ltd.					
EUT	Solar Charge Controller	Temperature	23.7℃			
M/N	MC4870N15	Humidity	52%			
Criterion	В	Pressure	1021mbar			
Test Mode	Mode 1	Test Engineer	Link Li			
Test Voltage	DC 48V	Test voltage	DC 48V			

Air Discharge						
		Test Levels	in Discharge		Result	S
Test Points	± 2kV	± 4kV	± 8kV	Passed	Fail	Performance Criterion
Front	\boxtimes	\boxtimes		\boxtimes		□A ⊠B
Back	\boxtimes	\boxtimes	\boxtimes	\boxtimes		\square A \boxtimes B
Left	\boxtimes	\boxtimes		\square		\square A \boxtimes B
Right	\boxtimes	\boxtimes	\boxtimes	\boxtimes		\square A \boxtimes B
Top	\boxtimes	\boxtimes		\square		□A ⊠B
Bottom	\boxtimes	\boxtimes				□A ⊠B
			tact Dischar	ge		
		Test Levels			Result	15
Test Points	± 2 kV		±4 kV	Passed	Fail	Performance Criterion
Front			\boxtimes			□A ⊠B
Back			\boxtimes			□A ⊠B
Left			\boxtimes			□A ⊠B
Right			\boxtimes			□A ⊠B
Top			\boxtimes			□A ⊠B
Bottom	\boxtimes		\boxtimes			□A ⊠B
	Dis	charge To H	Horizontal Co	oupling Plan	e	
		Test Levels		Results		
Side of EUT	± 2 kV		± 4 kV	Passed	Fail	Performance Criterion
Front			\boxtimes			□A ⊠B
Back	\boxtimes		\boxtimes			□A ⊠B
Left	\boxtimes		\boxtimes			□A ⊠B
Right	\boxtimes		\boxtimes	\boxtimes		\square A \boxtimes B
Discharge To Vertical Coupling Plane						
a		Test Levels		Results		
Side of EUT	± 2 kV		± 4 kV	Passed	Fail	Performance Criterion
Front	\boxtimes		\boxtimes	\boxtimes		\square A \boxtimes B
Back						□A ⊠B
Left						□A ⊠B
Right	\boxtimes		\boxtimes	\boxtimes		$\square A \boxtimes B$

7. RF FIELD STRENGTH SUSCEPTIBILITY TEST

7.1. Block Diagram of Test Setup



7.2. Test Standard

EN IEC 61000-6-1: 2019 (EN 61000-4-3: 2006+A2: 2010 Severity Level 2: 3V/m; Level 2: 3V/m; Level 1: 1V/m)

7.3. Severity Levels and Performance Criterion

7.3.1. Severity level

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

7.3.2. Performance Criterion Performance Criterion: A

7.4. EUT Configuration on Test

The configuration of EUT is listed in Section 4

7.5. Operating Condition of EUT

Same as radiated emission measurement, which is listed in Section 5.2.4, except the test setup replaced as Section 5.5.1.

7.6. 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	80-1GHz
4.	Sweep Time of Radiated	0.0015 Decade/s
5.	Dwell Time	3 Sec.
6.	Fielded Strength	3V/m (Severity Level 2)
7.	Radiated Signal	Unmodulated
8.	Scanning Frequency	1.4-2.0GHz
9.	Sweep time of radiated	0.0015 Decade/s
	Dwell Time	3 Sec.
10.	Fielded Strength	1V/m (Severity Level 1)
11.	Radiated Signal	Unmodulated
12.	Scanning Frequency	2.0-2.7GHz
13.	Sweep time of radiated	0.0015 Decade/s
14.	Dwell Time	3 Sec.

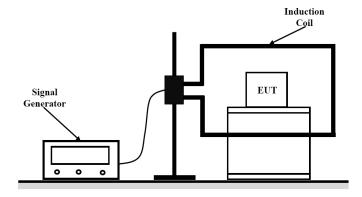
7.7. Test Results

PASS.

The test result please refer to the next page.

8. MAGNETIC FIELD SUSCEPTIBILITY TEST

8.1. Block Diagram of Test Setup



8.2. Test Standard

EN IEC 61000-6-1: 2019 (EN 61000-4-8: 2010, Severity Level: Level 1, 3A/m)

8.3. Severity Levels and Performance Criterion

8.3.1. Severity level

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

8.3.2. Performance Criterion

Performance Criterion: A

8.4. EUT Configuration on Test

The configuration of EUT is listed in Section 4

8.5. 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.

8.6. Test Results

PASS.

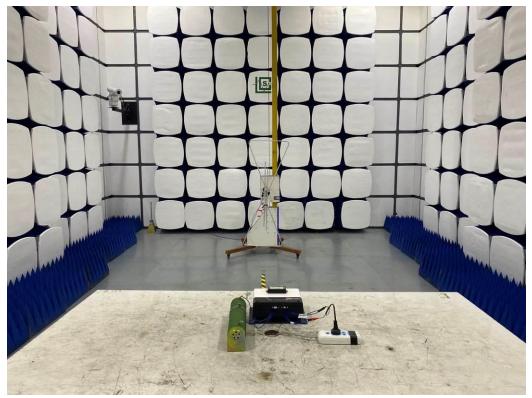
The test result please refer to the next page.

Magnetic Field Immunity Test Result					
Standard	□ IEC 61000-4-8 □ EN 61000-4-8				
Applicant	SRNE Solar Co., Ltd.				
EUT	Solar Charge Controller	Solar Charge Controller Temperature 23.7°C			
M/N	MC4870N15	MC4870N15 Humidity 53%			
Test Mode	Cest Mode 1 Criterion A				
Test Engineer	Link Li	Test Voltage	DC48V		

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:

9. PHOTOGRAPHS OF TEST SETUP



Test Setup Photo of Radiated Measurement (30MHz~1GHz)



Test Setup Photo of Electrostatic Discharge Test



Test Setup Photo of Magnetic Field Immunity Test

10. PHOTOGRAPHS OF THE EUT

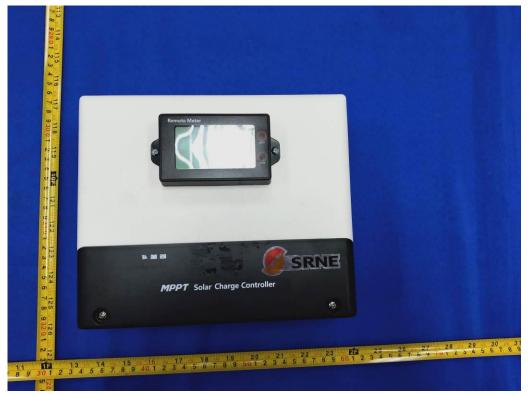


Fig. 1

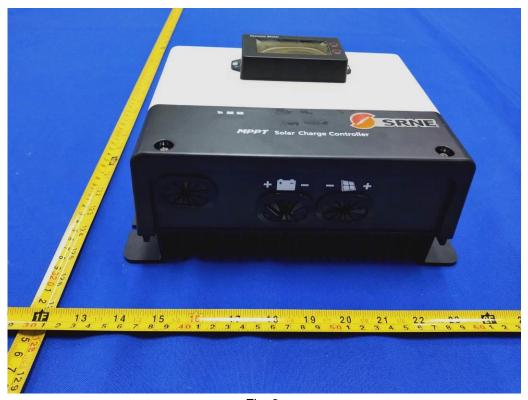


Fig. 2

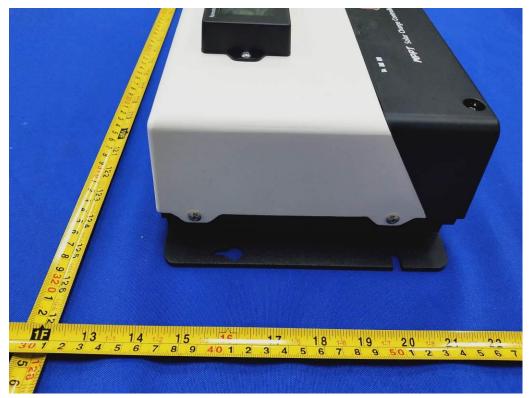


Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

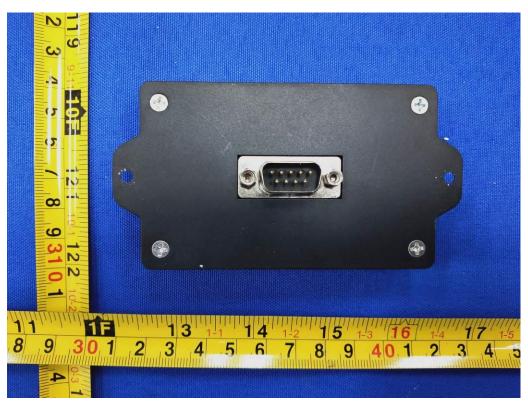


Fig. 8

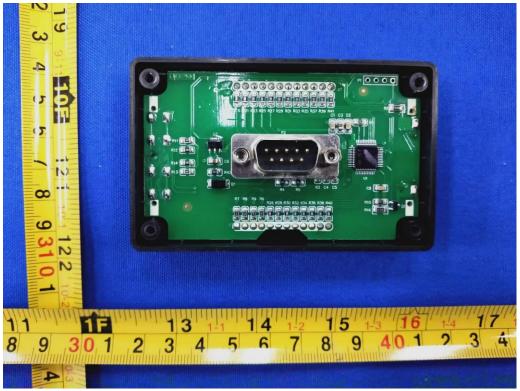


Fig. 9

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