

# **TEST REPORT**

SGS-CSTC
Standards Technical Services
(Shanghai) Co., Ltd.

No.588 West Jindu Road, Songjiang District, Shanghai, China



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Page 2 of 11 Report No.: SHES230601055871-01

Report reference no. ...... SHES230601055871-01

Date of issue...... Jun. 13, 2023

Total number of pages ...... 11

Applicant's name...... LUXEN SOLAR ENERGY CO., LTD.

City, Jiangsu Province, P. R. China

Test specification ...... Clause MQT 01, MQT 02, MQT 03, MQT 15 of IEC 61215-2:2016

Test item description ...... Photovoltaic (PV) module(s)

Trade mark .....:



Manufacturer ...... LUXEN SOLAR ENERGY CO., LTD.

No. 1, Haiyue Road, Suxitong Technologies & Industries Park, Nantong

City, Jiangsu Province, P. R. China

Model/Type reference ...... LNVU-550M

Ratings ...... Refer to marking plate of sample

Signature

Tested by: Janine Tian

Signature

Approved by: Van Hua



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# List of tests performed

Test item	est item Requirement + Test		Verdict
1	Visual inspection	See Table 1	Р
2	Maximum power determination	See Table 2	Р
3	Insulation test	See Table 3	Р
4	Wet leakage current test	See Table 4	Р

Pre-conditioning has been performed with an irradiance dose of 5.0 kWh/m².



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Summary of testing

Submitted samples are tested according to Clause MQT 01, MQT 02, MQT 03, MQT 15 of IEC 61215-2:2016. The test results are present within this test report.

#### Tests performed (name of test and test clause):

IEC 61215-2-2016:

Visual inspection (MQT 01)

Performance at STC (MQT 02)

Insulation test (MQT 03)

Wet leakage current test (MQT 15)

#### **Testing location:**

Guoce Testing Technology (suzhou) Co., Ltd. Building 11, No. 18, Yaofeng East Road, Mudu Town, Wuzhong District, Suzhou, Jiangsu, 215151, China

Report No.: SHES230601055871-01

#### Copy of marking plate / device under test:

Module Type: LNVU-550M



#### Marking plate of Sample



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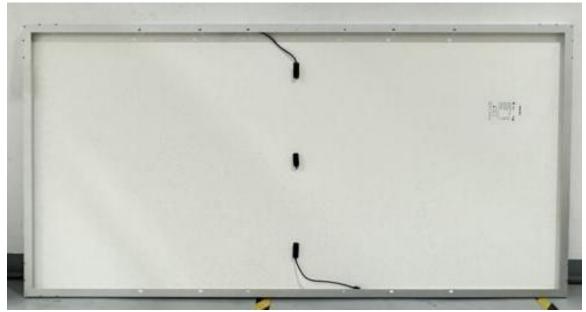
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Front view of sample



Rear view of sample







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#### Connector





Report No.: SHES230601055871-01

Junction Box

Possible test case verdicts				
- Test case does not apply to the test object:	N/A			
- Test object does meet the requirement:	Pass (P)			
- Test object does not meet the requirement:	Fail (F)			

#### **General remarks**

The test results presented in this report relate only to the object tested.

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"(See Enclosure #)" refers to additional information appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

List of test equipment must be kept on file and available for review.

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#### Contents:

- 1) The main report
- 2) Appendix 1: List of measurement equipment
- 3) Appendix 2: Statement of the estimated uncertainty of the test results

## **General product information**



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The product is photovoltaic (PV) module. **Description of module construction** Model Cell Type No. of cells Dimension [mm] LNVU-550M Mono-crystalline 144 2279x1134x35 **Technical Data** Isc [A] Pmp [W] Max.System Type/Model Voc [V] Vmp [V] Imp [A] Voltage [V] 1500 LNVU-550M 50.32 42.28 13.90 13.01 550 Type/Model Module Efficiency [%] **Energy Efficiency Class** LNVU-550M 21.28 Supplementary information: Energy efficiency >13.5%: Class A. A>13.5% 13%<B≤13.5% 12%<C≤13% Energy efficiency classes 11%<D≤12% E<11%

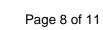


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# 1. Sampling procedure

	Random sampling from production (e.g. during factory audit (FA) or inline inspection) Random sampling from the warehouse, container or transportation boxes
$\boxtimes$	Modules have been submitted by the manufacturer/ client without random sampling by SGS

#### 2. Test sample

Sample #	Model Type	Serial Number
01	LNIVILEEOM	VUMC314163770452
02	LNVU-550M	VUMC314163770839

## 3. Test specification and test result

TABLE 1: MQT 01 Visual inspection						
Test Date [YYYY-MM-DD] :	2023-06-08	_				
Sample #	Nature and position of initial findings	Verdict				
01	No Major visual defects	Р				
02	No Major visual defects	Р				
Supplementary information: N/A						

TABLE 2: MQT 02 Maximum power determination						
Test Date [YYYY-MM-DD]:			2023-06-08			_
Test method						_
Module temperature [°C]: Corrected to 25.0				_		
Irradiance [W/m²]:			Corrected to 1000			_
Sample #	Voc [V]	Vmp [V]	Isc [A] Imp [A] Pmp [W]			FF [%]
01	49.74	41.88	13.72 13.05 546.5		80.08	
02	49.64	41.79	13.66 12.98 542.4			79.95
IV Curve:						



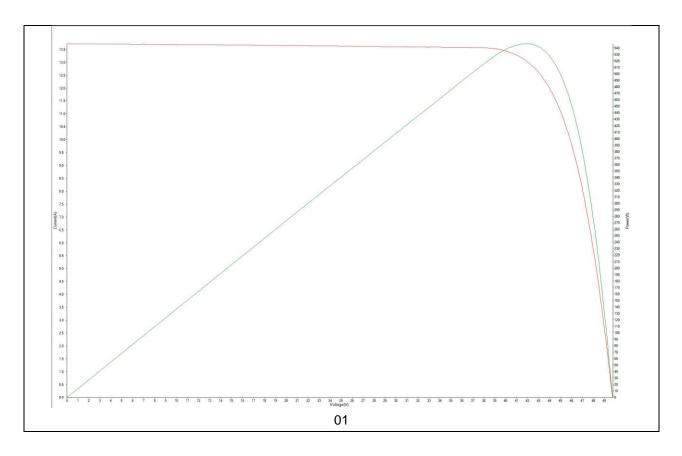
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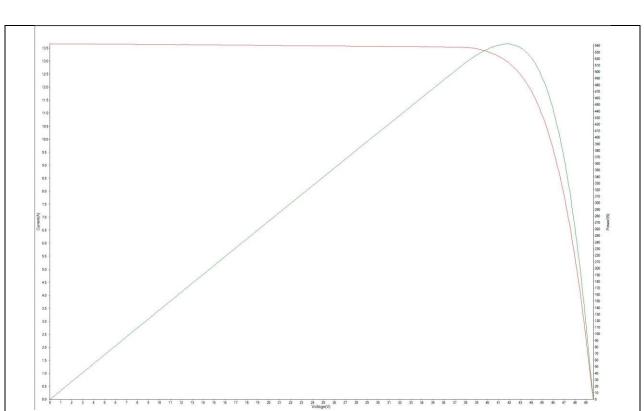


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Supplementary information: Refer to Appendix 2: Statement of the estimated uncertainty of the test verdicts. The discrepancy between the labelled power value and the measured value shall not exceed the limit of -5%~10%.

02

TABLE 3: MQT 03 Insulation test						
Test Date [YYYY-MM-DD]::		2023-06-09				
Test Voltage applied [V]::		4000V 1min/1500V 2min				
Size of module [m²]:		2.58				
Sample #	Measured	Required Resistance	Dielectric breakdown		Dogult	
	ΜΩ	ΜΩ	Yes (description)	No	Result	
01	27452	≥15.50	_	No	Р	
02	25554	≥15.50	— No		Р	
Supplementary information: Minimum requirement acc. to IEC 61215:2016 is 40 MΩ *m².						



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TABLE 4: MQT 15 Wet leakage current test					
Test Date [YYYY-MM-DD]:		2023	_		
Test Voltage applied [V]:		1500	_		
Solution res	istivity [Ω cm):	1967		_	
Solution temperature [°C]:		24.2			
Size of module [m²]		2.58		_	
Sample # Required Resistance [MΩ]			Measured [MΩ]	Result	
01	≥15.50		9195	Р	
02	02 ≥15.50		17816	Р	
Supplementary information: Minimum requirement acc. to IEC 61215:2016 is 40 MΩ *m².					

## Appendix 1: List of measurement equipments

Clause	Measurement / testing	Testing / measuring equipment / material used	Equipment ID	Calibration due date
4.1 10.2	Visual inspection	Luminometer	PM6612L	2024.02.13
4.3 10.13	Insulation test	Withstanding voltage/Insulation resistance tester	GCYQ-AG-18	2023.08.18
4.6	Performance at STC Pulsed Solar Simulate		GIV-20A2616	2023.08.02
4.15 10.14	Wet leakage current test	Withstanding voltage/ Insulation resistance tester	GCYQ-AG-18	2023.08.18
		Conductive meter	GCYQ-AG-07	2023.11.01

## Appendix 2: Statement of the estimated uncertainty of the test results

The estimated uncertainty fulfils the requirements from the CTL decision sheet DSH 251B / 2009.

## ---- End of Test Report -----



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