

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 20 Report No.: SHES230601056171-01

Report reference no. SHES230601056171-01

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

Total number of pages: 20

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 LNET-670M,

LNET-690ND

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	Requirement + Test	Result	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.: SHES230601056171-01

Copy of marking plate / device under test:

Module Type: LNET-670M

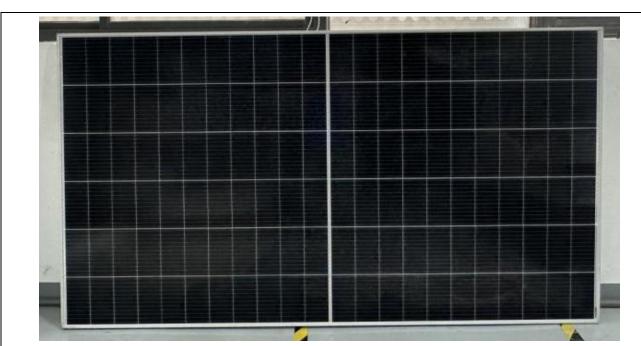


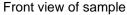
Marking plate of Sample

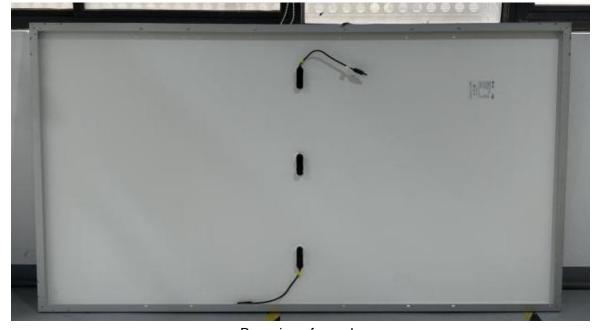


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Rear view of sample



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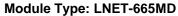








Junction Box





Marking plate of Sample



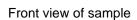


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Rear view of sample





Connector





Junction Box

Module Type: LNET-690ND

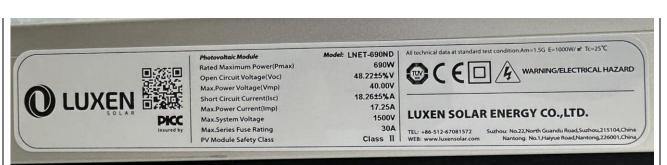


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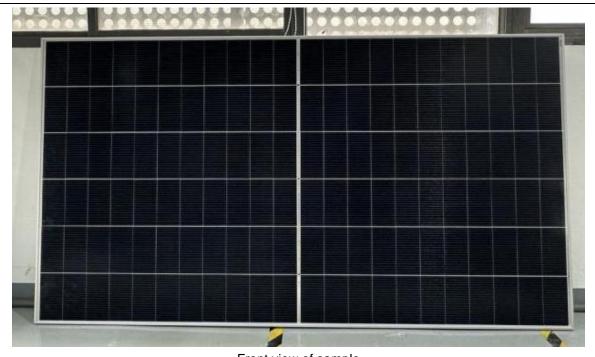
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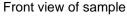
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Marking plate of Sample







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Rear view of sample





Connector





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)



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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

The product is photovoltaic (PV) module.

Description of module construction									
Model Cell Type		Cell Type	No. of cells		S	Dimension [mm]			
LNET-670	OM	Moi	no-crystalli	ne		132		2384x1303x35	
LNET-665	MD	Moi	no-crystalli	ne		132		2384	x1303x35
LNET-690	ND	Moi	no-crystalli	ne		132		2384	x1303x35
Technical Data									
Type/Model	Voc [V]	٧	mp [V]	Isc	[A]	Imp [A	7]	Pmp [W]	Max.System Voltage [V]
LNET-670M	45.71		38.22	18	.78	17.53		670	1500
LNET-665MD	43.24		35.99	19	.73	18.48		665	1500
LNET-690ND	48.22		40.00	0.00 18.26		17.25		690	1500
Type	Type/Model Module Efficiency [%] Energy Efficiency Class								



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LNET-670M	21.57	A			
LNET-665MD	21.41 A				
LNET-690ND	22.21	A			
Supplementary information: Energy	efficiency >13.5%: Class A.				
	A>13.5%				
	13% <b≤13.5%< td=""></b≤13.5%<>				
Energy efficiency classes	12% <c≤13%< td=""></c≤13%<>				
	11% <d≤12%< td=""></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	

2. Test sample

Sample #	Model Type	Serial Number
01	LNET 670M	2960639192201091
02	LNET-670M	2960639192201093
03	LNET CCEMP	M01220800449306
04	LNET-665MD	M01220800458634
05	LNET COOLD	SO23062YC018118
06	LNET-690ND	SO23062YC018212

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		
03	No Major visual defects	Р		
04	No Major visual defects	Р		
05	No Major visual defects	Р		
06	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						



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498.9

78.36



06-B

46.43

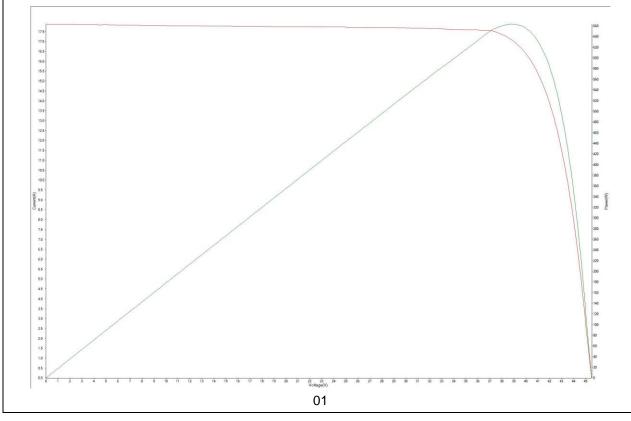
Module temperat	Module temperature [°C]: Corrected to 25.0				_	
Irradiance [W/m²]:			Corrected to 100	_		
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]
01	45.47	38.87	17.87	17.06	663.1	81.58
02	45.44	38.82	17.86	17.04	661.6	81.51
03-F	45.76	38.60	17.82	17.05	658.1	80.71
03-B	45.25	39.01	12.85	11.67	455.4	78.32
04-F	45.81	38.49	17.89	17.08	657.6	80.25
04-B	45.18	38.90	12.84	11.68	454.5	78.32
05-F	46.81	39.16	17.98	17.10	669.7	79.58
05-B	46.49	39.45	13.71	12.66	499.4	78.34
06-F	46.92	39.11	18.04	17.18	671.9	79.36



13.71

12.67

39.38



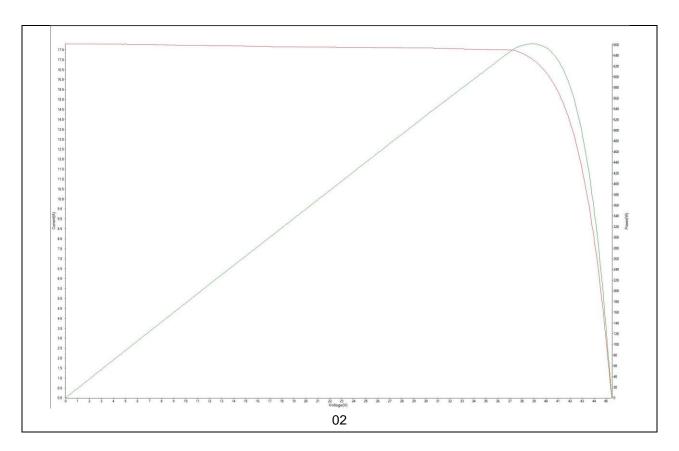


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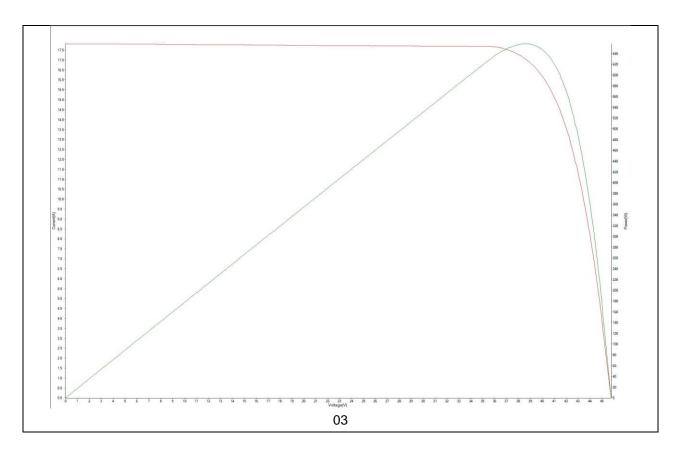




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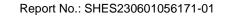


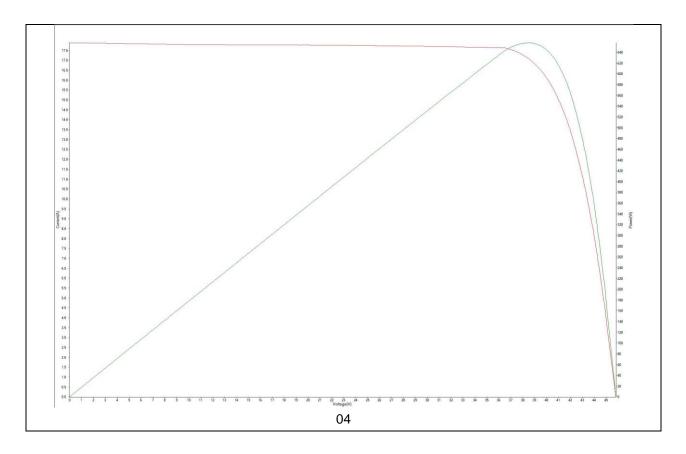


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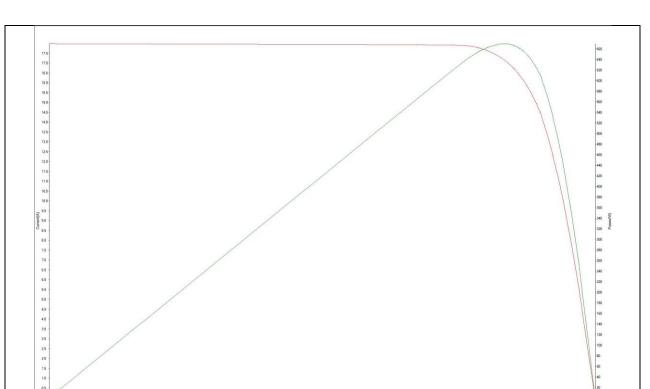




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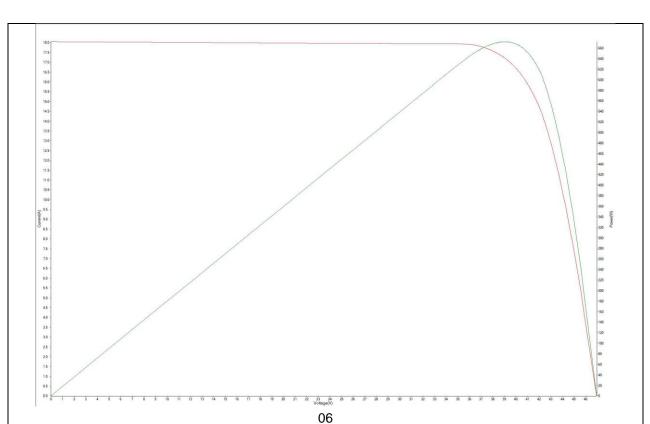
22 23 24 25 26 27 28 29 30 31 32 33 34 Voltage(V)



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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%.

TABLE 3: I	TABLE 3: MQT 03 Insulation test							
Test Date [YYYY-MM-DD] 2023-06-09								
Test Voltag	e applied [V]::	4000V 1min/1500V 2min			_			
Size of mod	dule [m²]::	3.11			_			
Sample #	Measured	Required Resistance	Dogult					
	ΜΩ	MΩ Yes (description) No		Result				
01	27493	≥12.86	_	No	Р			
02	02 25796 ≥12.86 — No			No	Р			
03	25765	≥12.86	_	No	Р			
04	27846	≥12.86	≥12.86 — No					
05	22104	≥12.86	_	No	Р			



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Report No.: SHES230601056171-01

06	19590	≥12.86	_	No	Р
Supplemen	tary information: Minimur	m requirement acc. to IEC 6121	5:2016 is 40 MΩ *m².		

TABLE 4: M	TABLE 4: MQT 15 Wet leakage current test					
Test Date [Y	YYY-MM-DD]:	2023	3-06-09	_		
Test Voltage	applied [V]::	150	0V 2min	_		
Solution resi	stivity [Ω cm):	196	7	_		
Solution tem	perature [°C]:	24.2		_		
Size of modu	ıle [m²]:	3.11		_		
Sample #	Required Resistance [MΩ]	•	Measured [MΩ]	Result		
01	≥12.86		11475	Р		
02	≥12.86		14285	Р		
03	≥12.86		15969	Р		
04	≥12.86		13683	Р		
05	≥12.86		12072	Р		
06 ≥12.86			13304	Р		
Supplementa	Supplementary information: Minimum requirement acc. to IEC 61215:2016 is 40 MΩ *m².					

Appendix 1: List of measurement equipments



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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 Simulator	GIV-20A2616	2023.08.02
4.15 10.14	Wet leakage current test	Withstanding voltage/ Insulation resistance tester Conductive meter	GCYQ-AG-18	2023.08.18

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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