



TEST REPORT

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

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

Report reference no.: SHES190802053271

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

Address: 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Applicant's name.....: Zhejiang Shinefar Solar Power Co., Ltd.

Address: NO.108 Xinghe Road, Yuyue Town, Deqing , Huzhou , Zhejiang ,China.

Test specification: Clause MQT 01, MQT 06.1, MQT 03, MQT 08, MQT 15, MQT 16 of IEC 61215-2:2016

Clause MST 26 of IEC 61730-2:2016

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

Trade mark.....: Null

Manufacturer: Same as application

Model/Type reference: SF-M6/72375

Ratings: Refer to marking plate of sample

Signature

Tested by: Jessie Zhang

Signature

Approved by: Monica Liu



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Summary of testing

Submitted samples are tested according to MQT 01, MQT 06.1, MQT 03, MQT 08, MQT 15, MQT 16 of IEC 61215-2:2016 and MST 26 of IEC 61730-2:2016.

The test results are present within this test report.

Tests performed (name of test and test clause):

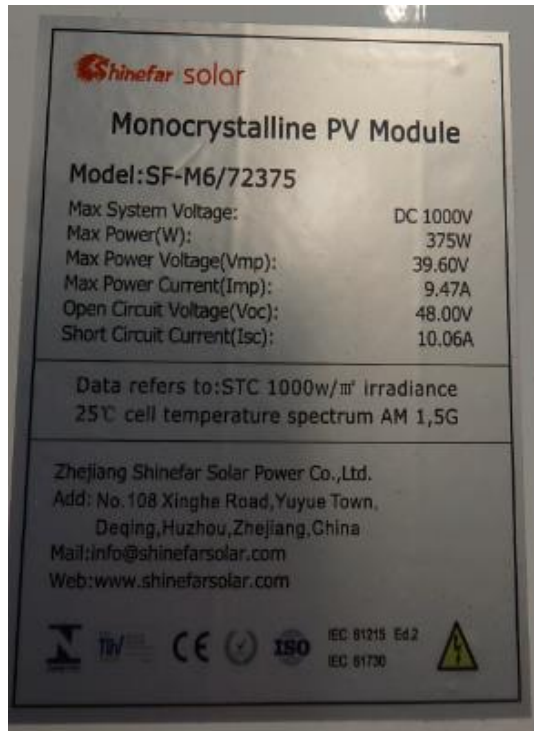
IEC 61215-2:2016:
 Visual inspection (MQT 01)
 Performance at STC (MQT 06.1)
 Insulation test (MQT 03)
 Outdoor exposure test (MQT 08)
 Wet leakage current test (MQT 15)
 Static mechanical load test (MQT 16)
 IEC 61730-2:2016:
 Reverse current overload test MST 26

Testing location:

Shanghai Institute of Quality Inspection and Technical Research
 No.900 Jiangyue Road, Shanghai, China

Copy of marking plate / device under test:

Module Type: SF-M6/72375



Marking plate of Sample



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Serial Number of Sample



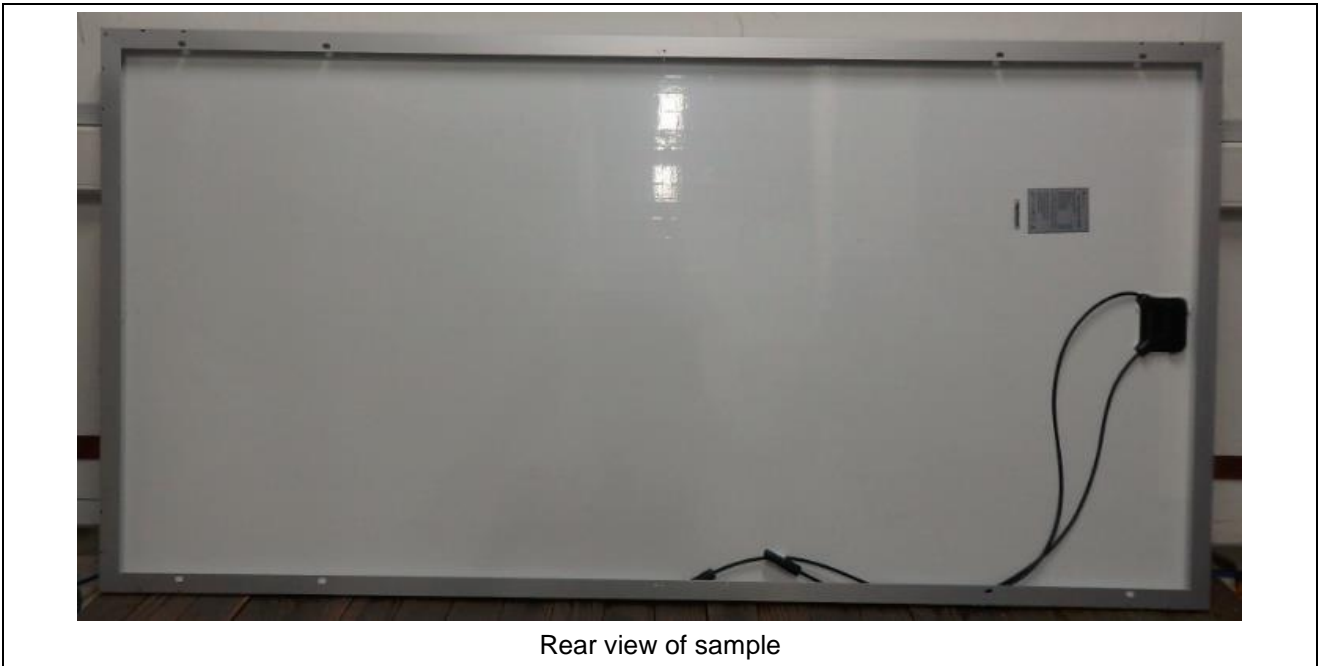
Front view of sample



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Rear view of sample

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.
 This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
 "(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.



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1. Sampling procedure

<input type="checkbox"/> Random sampling from production (e.g. during factory audit (FA) or inline inspection)
<input type="checkbox"/> Random sampling from the warehouse, container or transportation boxes
<input checked="" type="checkbox"/> Modules have been submitted by the manufacturer/ client without random sampling by SGS

2. Test sample

Sample #	Model Type	Serial Number
01	SF-M6/72375	7790291912970001
02	SF-M6/72375	7790291912970002

3. Test specification and test result

MQT 01 Visual inspection		
Test Date [YYYY-MM-DD]	:	2019-08-09
Sample #	Nature and position of initial findings	Verdict
01	No Major visual defects	P
Supplementary information: N/A		

MQT 06.1 Performance at STC						
Test Date [YYYY-MM-DD]	:	2019-08-09				—
Test method		<input checked="" type="checkbox"/> indoor	<input type="checkbox"/> outdoor			—
Module temperature [°C]	:	25±0.5				—
Irradiance [W/m ²]	:	1000±10				—
Sample #	Voc [V]	Isc [A]	Vmp [V]	Imp [A]	Pmp [W]	FF [%]
01	48.881	9.843	40.024	9.361	374.664	77.87
Supplementary information: Refer to Appendix 2: Statement of the estimated uncertainty of the test verdicts.						

MQT 03 Insulation test		
Test Date [YYYY-MM-DD]	:	2019-08-12
		—



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Test Voltage applied [V]		6000/1000	—	
Size of module [m ²]		1.94	—	
Required Resistance [MΩ].....		≥20.62	—	
Sample #	Measured	Dielectric breakdown		Result
	MΩ	Yes (description)	No	
01	6313	—	No	P
Supplementary information: /				

MQT 15 Wet leakage current test			
Test Date [YYYY-MM-DD]		2019-08-12	—
Test Voltage applied [V].....		1000	—
Solution temperature [°C]		23.0	—
Size of module [m ²]		1.94	—
Sample #	Required Resistance [MΩ]	Measured [MΩ]	Result
01	208	≥20.62	P
Supplementary information: /			

MQT 08 Outdoor exposure test			P
Test Date [YYYY-MM-DD] start/end		2019-08-23 to 2019-08-26	—
Sample #		01	—
Total irradiation dosage [kWh/m ²]		60.0	—
Angle of tilt the test module		Vertical	—
Electrical load [Ω]:		5	—
Supplementary information: /			

MQT 01: Visual inspection after outdoor exposure test			P
Test Date [YYYY-MM-DD]		2019-08-26	—
Sample #	Nature and position of initial findings – comments or attach photos		Result
01	No Major visual defects		P
Supplementary information: /			

MQT 15: Wet leakage current test after outdoor exposure test			P
Test Date [YYYY-MM-DD]		2019-08-26	—



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Test Voltage applied [V]		1000				—
Solution temperature [°C]		23.3				—
Size of module [m ²]		1.94				—
Required Resistance [MΩ].....		≥20.62				—
Sample #	Measured [MΩ]		Limit [MΩ]			Result
01	153		≥20.62			P
Supplementary information: /						
MQT 02 - Maximum power determination after outdoor exposure test - Optional						—
Test Date [YYYY-MM-DD].....		2019-08-26				—
Module temperature [°C].....		Corrected to 25.0				—
Irradiance [W/m ²]		Corrected to 1000				—
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]
01	48.728	39.981	9.782	9.309	372.197	78.08
Supplementary information: /						

MQT 03 - Insulation test after outdoor exposure test - Optional						P
Test Date [YYYY-MM-DD].....		2019-08-26				—
Test Voltage applied [V]		1000				—
Size of module [m ²]		1.94				—
Required Resistance [MΩ].....		≥20.62				—
Sample #	Measured	Required (MΩ)	Dielectric breakdown		P	
	(MΩ)	(MΩ)	Yes (description)	No		
01	2510	≥20.62	—	No	P	
Supplementary information: /						

MQT 16 Static mechanical load test		P
Sample #:	01	—
Design load (front side/ back side)	1600/1600	—
Safety factors	1.5	—
Test Date [YYYY-MM-DD].....	2019-08-27	—



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Mounting method	Clamps mounting (4 points)		—
Load applied to	front side	back side	—
Mechanical load [Pa]	2400	2400	—
First cycle time (start/end)	1h	1h	—
Intermittent open-circuit (yes/no)	No	No	P
Second cycle time (start/end)	1h	1h	—
Intermittent open-circuit (yes/no)	No	No	P
Third cycle time (start/end)	1h	1h	—
Intermittent open-circuit (yes/no)	No	No	P
Supplementary information: /			
TABLE 19.6: MQT 01 - Visual inspection after static mechanical load test			P
Test Date [YYYY-MM-DD]	2019-08-27		—
Sample #	Nature and position of initial findings – comments or attach photos		—
01	No Major visual defects		P
Supplementary information: /			
TABLE 19.7: MQT 15 - Wet leakage current test after static mechanical load test			P
Test Date [YYYY-MM-DD]	2019-08-27		—
Test Voltage applied [V]	1000		—
Solution temperature [°C]	23.0		—
Size of module [m ²]	1.94		—
Required Resistance [MΩ]	≥20.6		—
Sample #	Measured [MΩ]	Limit [MΩ]	Result
01	168	≥20.6	P
Supplementary information: /			

MST 26 Reverse current overload test		
Sample #	01	—
Test Date (YYYY-MM-DD)	2019-08-30	—
Test current (A)	20.25	—
Range of applied voltage (V)	56.8~58.2	—
Test duration	1 hours	—



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Observations	Result		
■ No flaming of the module	P		
■ No flaming or charring of the cheesecloth			
■ No flaming of the tissue paper			
■ MST 17 requirements fulfilled (see appended Table MST17)			
Supplementary information: /			
Wet leakage current test after Reverse current overload test			
Test Date (YYYY-MM-DD)	2019-08-28	—	
Test Voltage applied (V, dc)	1000	—	
Solution resistivity (Ω cm)	1772	—	
Solution temperature ($^{\circ}$ C)	22.7	—	
Sample#	Measured (M Ω)	Required (M Ω)	Result
01	162	≥ 20.62	P
Supplementary information: Size of module 1.94 [m ²]			

Appendix 1: List of measurement equipments

Identification #	Description	Calibration expire date
DZ-A-A2-0022	Pulse Simulator	2020-07-12
DZ-A-A2-0022-5	Electronic Load	2021-02-21
DZ-A-A1-0258	Insulation Resistor Instrument	2020-03-12
DZ-B-A2-0055	Conductivity meter	2020-07-24
DZ-A-A1-0009	Switch Power Supply	2019-12-31
DA-A-A2-0020	Mechanical Load Tester	2019-10-05

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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