


<b>TEST REPORT</b> <b>PPP 58042B:2015 Rev. 01</b> <b>TÜV SÜD Test report in accordance with IEC TS 62804-1:2015</b> <b>Photovoltaic (PV) modules – Test methods for the detection of potential-induced degradation – Part 1: Crystalline silicon</b>	
Report No. .... :	704062003503-02
Date of issue..... :	2021-08-09
Project handler..... :	Ning Tang
TÜV SÜD Branch..... :	TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Address .....	No. 151 Heng Tong Road Shanghai 200070 P. R. China
Testing location .....	Lianyungang Shenzhou New Energy Co., Ltd. Test Center of PV Modules No.8 Xiamen Road, Ganyu Economic Development Zone, Lianyungang, Jiangsu 222100, P. R. China
Client..... :	Shanghai Aerospace Automobile Electromechanical Co., Ltd.
Client number..... :	086674
Address .....	222 Caoxi Rd, the 8th Floor of Spaceflight Building, Shanghai 200235, P.R. China
Contact person..... :	N/A
Standard .....	This TÜV SÜD test report form is based on the following requirements: PPP 58042B:2015 rev.01/2019-09 according to IEC TS 62804-1:2015
TRF number and revision:	TRF 58042B:2015 rev.01/2019-09
TRF originated by..... :	TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch, , Mr. Bo Xiangxi
Copyright blank test report .....	This test report is based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by TUV SUD Product Service.  TUV SUD Group takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.
General disclaimer:	This test report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.
Scheme .....	<input checked="" type="checkbox"/> TUV Mark <input type="checkbox"/> without certification <input type="checkbox"/> GS Mark <input type="checkbox"/> NRTL Mark <input type="checkbox"/> EU-Directive
Non-standard test method .....	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, see details under Summary of testing
National deviations .....	N/A
Number of pages (Report)..... :	19
Number of pages (Attachments)..... :	6



Product Service

Compiled by:	Ning Tang 
Approved by:	Rongwei Jing

Test sample.....:	5
Type of test object.....:	Mono-Crystalline Silicon Photovoltaic Module
Trademark.....:	N/A
Model and/or type reference.....:	HT72-18X-530
Rating(s).....:	530 W
Manufacturer.....:	Lianyungang Shenzhou New Energy Co., Ltd.
Manufacturer number.....:	077751
Address.....:	No.8 Xiamen Road, Ganyu Economic Development Zone, Lianyungang, Jiangsu 222100, P. R. China
Sub-contractors/ tests (clause).....:	N/A
Name.....:	N/A
Order description.....:	<input checked="" type="checkbox"/> Complete test according to TRF <input type="checkbox"/> Partial test according to manufacturer's specifications <input type="checkbox"/> Preliminary test <input type="checkbox"/> Spot check <input type="checkbox"/> Others:
Date of order.....:	2021-01-19
Date of receipt of test item.....:	2021-04-21
Date(s) of performance of test.....:	2021-05-05~2021-05-28
Test item particulars: See below for detail	
<b>Purpose of the product</b> (Description of intended use): Terrestrial photovoltaic(PV) modules	
<b>Characteristic data</b> (not shown on the marking plate):N/A	
<b>Attachments:</b> Annex 1: List of measurement equipment Annex 2: Statement of the estimated uncertainty of the test results Annex 3: EL Photos of samples	



**General remarks:**

*"(see remark #)" refers to a remark 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.*

*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 testing laboratory.*



**Summary of testing:**

**4.2 Initial measurements:**

- a) Preconditioning
- b) MST 01: Visual inspection
- c) 10.2: Maximum power determination
- d) 10.7: Performance at low irradiance
- e) 10.15: Wet leakage current test
- f) Electroluminescence test
- g) MST 13: Ground continuity test

**4.3 Damp heat test applied with voltage stress**

in accordance with IEC TS 62804-1:2015

the total time is 96 hours,  $\pm 1500\text{ V}$ ,  $85^{\circ}\text{C}+85\%\text{ RH}$

**4.4 Final measurements:**

- a) 10.2: Maximum power determination
- b) 10.7: Performance at low irradiance
- c) 10.15: Wet leakage current test
- d) Electroluminescence test
- e) MST 01: Visual inspection

deviation(s) found

no deviations found

**Additional information on Non-standard test method(s)**

Sub clause: N/A

Page: N/A

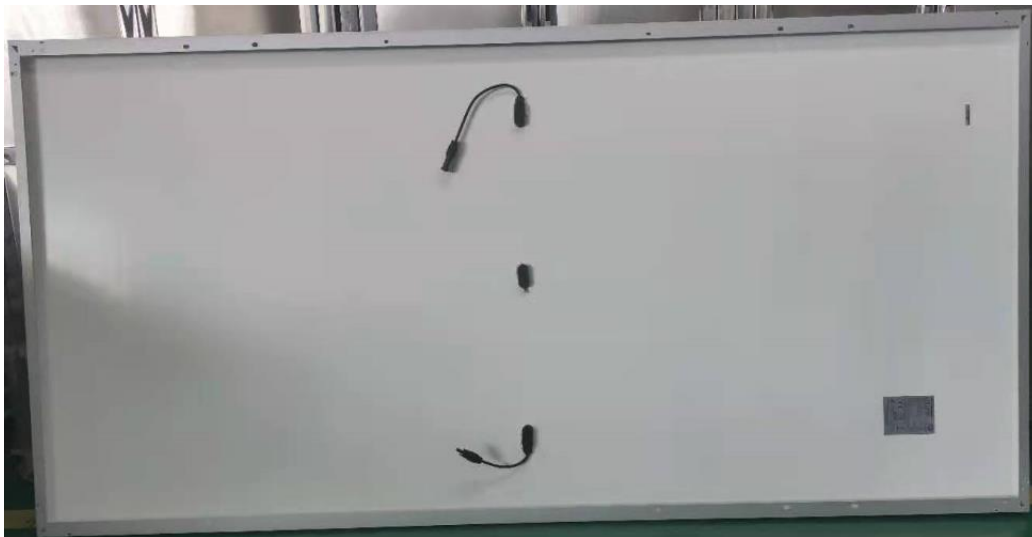
Rational: N/A

**If additional information is necessary, please provide**

Copy of marking plate:



Picture of the product:





**Name and address of factory (ies)** *(only if certification is provided):*

Lianyungang Shenzhou New Energy Co., Ltd. (077751)  
No.8 Xiamen Road, Ganyu Economic Development Zone, Lianyungang, Jiangsu 222100, P. R. China

**Possible test case verdicts:**

test case does not apply to the test object: N/A (not applicable / not included in the order)  
test object does meet the requirement: P (Pass)  
test object does not meet the requirement: F (Fail)

**Possible suffixes to the verdicts:**

suffix for detailed information for the client: C (Comment)  
suffix for important information for factory inspection: M (Manufacturing)



<b>Test item particulars</b> .....	
Accessories and detachable parts included in the evaluation .....	N/A
Option included .....	N/A
<b>Abbreviations used in the report:</b>	

STC – Standard Test Conditions	Vmp – Maximum power voltage
Imp – Maximum power current	Voc – Open circuit voltage
Isc – Short circuit current	Pmp – Maximum power

**General product information and considerations:**

**Product Electrical Ratings:**

Type or model number	HT72-166M-435
Voc (Vdc)	49.20±5%
Vmp (Vdc)	41.35
Imp (Adc)	12.83
Isc (Adc)	13.76±5%
Pmp (W)	530
Deviation of Pmp at STC	±3%
Maximum system voltage (V)	1500
Maximum over-current protection rating (A)	25
Safety Class	II

Information for testing sample:

Sample #	Type	Series number
HT2021-03-001	HT72-18X-530	LZECA999-000068 (control module)
HT2021-03-002	HT72-18X-530	LZECA999-000046
HT2021-03-003	HT72-18X-530	LZECA999-000047
HT2021-03-004	HT72-18X-530	LZECA999-000049
HT2021-03-005	HT72-18X-530	LZECA999-000070

<b>Description of module construction: (Manufactories and part numbers, unless otherwise specified)</b>	
Sample .....	Random sampling from production <input type="checkbox"/> Prototype submitted by client <input checked="" type="checkbox"/>
<b><u>Module</u></b>	
Front Cover .....	Lianyungang Ancai New Energy Co., LTD. Type: AR coating glass Thickness:3.2 mm
Rear Cover .....	Lucky Film Co., Ltd. Type:KPCw1
Encapsulation material .....	Changzhou Sveck PV New Material Co., Ltd Type: SV-15296 (between front glass and cell) / SV-15297W (between cell and rear glass)
Frame .....	Yangzhou Yu Xin metal products Co., Ltd. Anodized aluminum alloy, type 6063-T5
Dimensions (l x w x h) [mm] .....	2279*1133*35
Module area [m <sup>2</sup> ] .....	2.58
Adhesives (junction box) .....	Shanghai Huitian New Chemical Material Co.,Ltd. Type: HT906Z
Minimum distance between current-carrying parts and module edge [mm]	11.8
<b><u>Cell</u></b>	
Cell (include type) .....	Tongwei Solar Energy (Chengdu) Co., Ltd. Mono, Type: M182ABPERC
Cells (l x w) [mm] .....	182mm×91mm
Cell thickness [μm] .....	190μm±19 μm
Cell area [cm <sup>2</sup> ] .....	252.201
Number of cells .....	144

<b><u>Components</u></b>	
Cells per bypass diode .....	48
Type of bypass diode .....	Jiangsu Haitian Microelectronics Corp. Type:GFMK6045
No. of bypass diodes .....	3
Cell- and string connectors .....	Cell connection: Suzhou YourBest New-type Materials Co.,Ltd. Diameter: $\varnothing 0.35\text{mm}$ . Material: Base Cu ( $\geq 99.97\%$ ). Coating Sn60Pb40  String connection: Suzhou YourBest New-type Materials Co.,Ltd. Cross section: 5.0*0.25mm Material: Base Cu ( $\geq 99.97\%$ ). Coating Sn60Pb40.
Junction box .....	Shanghai Aerospace Automobile Electromechanical Co.,Ltd. Type: PV-HT004
Cable .....	Jiangsu Haitian Microelectronics Corp. H1Z2Z2-K, 1*4.0mm <sup>2</sup> ,
Connectors .....	Shanghai Aerospace Automobile Electromechanical Co.,Ltd. Type:PV-HT002-1
Adhesives (frame) .....	Shanghai Huitian New Chemical Material Co.,Ltd. Type: HT906Z
Potting material (junction box) .....	Shanghai Huitian New Chemical Material Co.,Ltd. Type: 5299W
<b><u>Other</u></b>	
Others .....	Fixing tape: TERAOKA SEISAKUSHO Co.,Ltd Type: 631S #25



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Clause	Requirement + Test	Result--Remark	Verdict
<b>3</b>	<b>Samples</b>		
	– Two representative and identical samples for each polarity of the system voltage that is specified or allowed in the module documentation and one control sample shall be provided		P
	– Two samples for only one voltage polarity with respect to earth ground which is specified in the installation manual and one control sample shall be provided.		N/A
	– PV module provided with means for grounding then they constitute a part of the test sample.		P

<b>MARKING</b>			P
Name, monogram or symbol of manufacturer :	Shanghai Aerospace Automobile Electromechanical Co., Ltd.		P
Type or model number	HT72-18XM-530		P
Serial number .....	See page 3		P
Polarity of terminals or leads	+/-		P
Maximum system voltage	1500 VDC		P
Nominal and minimum values of maximum output power at STC	530±3%		P
The date and place of manufacture	Traceable by serial No.		P

<b>4</b>	<b>Test procedures</b>		P
	<b>Preconditioning</b>		P
4.2 a)	– All modules, including the control, shall be exposed to sunlight (either real or simulated) to an irradiation to achieve stabilization.	See table 4.2 a)	P

<b>4.2</b>	<b>Initial Measurements</b>		P
	– Tests according to IEC 61215-1-1		P
4.2 c)	MQT 02: Maximum power determination	See table 4.2 c)	P
4.2 e)	MQT 15: Wet leakage current test	See table 4.2 e)	P
	– Tests according to IEC 61730-2		P
4.2 b)	MST 01: Visual inspection	See table 4.2 b)	P
4.2 g)	MST 13: Continuity test of equipotential bonding	See table 4.2 g)	P
	– Optional		P
4.2 d)	MQT 07: Performance at low irradiance	See table 4.2 d)	P
4.2 f)	Electroluminescence at $I_{sc}$ and $0,1 \cdot I_{sc}$	See table 4.2 f) and Annex 4 for pictures	P



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Clause	Requirement + Test	Result--Remark	Verdict
<b>4.3</b>	<b>Damp heat test applied with voltage stress</b>		P
	– Test according to IEC TS 62804-1:2015	See table 4.3	P
<b>4.4</b>	<b>Final Measurements</b>		P
	– Tests according to IEC 61215-1-1		P
4.4 a)	MQT 02: Maximum power determination	See table 4.4 a)	P
	– Tests according to IEC 61730-2		P
4.4 e)	MST 01: Visual inspection	See table 4.4 e)	P
	– Optional		P
4.4 b)	MQT 07: Performance at low irradiance	See table 4.4 b)	P
4.4 c)	MQT 15: Wet leakage current test	See table 4.4 c)	P
4.4 d)	Electroluminescence at $I_{sc}$ and $0,1 \cdot I_{sc}$	See table 4.4 d) and See Annex 4 for pictures	P
<b>5</b>	<b>Requirements</b>		P
	The degradation of maximum output power between initial and final power measurement does not exceed 5%	See table 4.2 c) & 4.4 a)	P
	There is no visual evidence of a major defect, as defined in Clause 8 of IEC 61215-1 and Clause 10.2.3 of IEC 61730-2	See table 4.2 b) & 4.4 e)	P
	The wet leakage current test requirements are met at the end of each sequence	See table 4.2 e) & 4.4 c)	P
	Specific requirements of the individual test components are met	All tables	P



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Clause	Requirement + Test	Result--Remark	Verdict
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4.2 a)	TABLE: Preconditioning		P
Test Date [MM/DD/YYYY] start/end .....	—		—
Total irradiation dosage [kWh/m <sup>2</sup> ].....	—		—
Supplementary information: Preconditioning performed by client.			

4.2 b)	TABLE: Visual inspection (Initial)		P
Test Date [MM/DD/YYYY].....	2021-05-05		—
Sample No.	Nature and position of initial findings – comments or attach photos		Verdict
HT2021-03-001	No major visual defects		P
HT2021-03-002	No major visual defects		P
HT2021-03-003	No major visual defects		P
HT2021-03-004	No major visual defects		P
HT2021-03-005	No major visual defects		P
Supplementary information:N/A			

4.2 c)	TABLE: Maximum power determination (Initial)					P
Test Date [MM/DD/YYYY].....	2021-05-05					—
Radiant Source.....	<input checked="" type="checkbox"/> Solar simulator		<input type="checkbox"/> Natural Sunlight			—
Module temperature [°C] .....	25					—
Irradiance [W/m <sup>2</sup> ].....	1000					—
Sample No.	Voc [V]	Isc [A]	Vmp [V]	Imp [A]	Pmp [W]	FF[%]
HT2021-03-001	49.476	13.353	41.601	12.715	528.944	80.1
HT2021-03-002	49.213	13.324	41.457	12.710	526.911	80.4
HT2021-03-003	49.448	13.359	41.564	12.717	528.569	80.0
HT2021-03-004	49.315	13.363	41.519	12.726	528.379	80.2
HT2021-03-005	49.352	13.339	41.541	12.719	528.350	80.3
Supplementary information: N/A						

4.2 d)	TABLE: Performance at low irradiance (Initial)		P
Test Date [MM/DD/YYYY] .....	2021-05-13		—
Ambient air temperature [°C].....	25		—
Irradiance [W/m <sup>2</sup> ](200 W/m <sup>2</sup> ) .....	200		—
Module temperature [°C] .....	25		—
Test method.....	<input type="checkbox"/> Data corrected to a 25°C cell temperature and 200 W/m <sup>2</sup> irradiance		—



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Clause	Requirement + Test	Result--Remark	Verdict
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		<input checked="" type="checkbox"/> Directly measured				
Data corrected to a 25°C cell temperature and 200 W/m <sup>2</sup> irradiance						
Sample #	Voc [V]	Isc [A]	Vmp [V]	Imp [A]	Pmp [W]	FF [%]
HT2021-03-002	45.774	2.730	39.334	2.588	101.781	81.5
HT2021-03-003	45.958	2.732	39.293	2.595	101.963	81.2
HT2021-03-004	45.839	2.735	39.283	2.598	102.075	81.4
HT2021-03-005	45.970	2.733	39.423	2.602	102.581	81.6
Supplementary information: N/A						

<b>4.2 e)</b>	<b>TABLE: Wet leakage current test (Initial)</b>			P
Test Date [MM/DD/YYYY] .....	2021-05-14			—
Test Voltage applied [V] .....	1500			—
Solution resistivity [ $\Omega$ cm] .....	< 3,500 $\Omega$ cm at 22 $\pm$ 3°C	1992		—
Surface tension [Nm <sup>-2</sup> ].....	< 0.03 Nm <sup>-2</sup> at 22 $\pm$ 3°C	—		—
Solution temperature [°C] .....	22.0			—
Sample #	Measured [M $\Omega$ ]	Limit [M $\Omega$ ]		Result
HT2021-03-001	2015	15.50		P
HT2021-03-002	1879	15.50		P
HT2021-03-003	2040	15.50		P
HT2021-03-004	1814	15.50		P
HT2021-03-005	2268	15.50		P
Supplementary information: Size of module is 2.58 m <sup>2</sup> .				

<b>4.2 f)</b>	<b>TABLE: Electroluminescence (Initial)</b>			—
Test Date [MM/DD/YYYY] start/end .....	2021-05-14			—
Supplementary information: See pictures in annex 4				

<b>4.2 g)</b>	<b>TABLE: MST 13 – Continuity test of equipotential bonding (Initial)</b>			P
	Maximum over-current protection rating (A).....	25		—
	Current applied (A) .....	62.5		—
	Location of designated grounding point.....	On the middle of the longest frame		—
	Location of second contacting point .....	On the other middle of the longest frame		—
Sample No.	Position in test sequence:	Voltage (V)	Resistance ( $\Omega$ )	Result





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Clause	Requirement + Test	Result--Remark		Verdict
HT2021-03-002	Initial	0.31	0.0049	P
HT2021-03-003	Initial	0.35	0.0056	P
HT2021-03-004	Initial	0.33	0.0052	P
HT2021-03-005	Initial	0.32	0.0051	P
Supplementary information: N/A				

4.3	TABLE: Damp heat test applied with voltage stress		P
Test Date [MM/DD/YYYY] start/end .....	2021-05-19/2021-05-28		—
Chamber air temperature ( °C) .....	85		—
Chamber relative humidity ( % RH) .....	85		—
Test duration hours (h) .....	96		—
Sample #	Applied voltage stress (V) and polarities		—
HT2021-03-002	-1500		P
HT2021-03-003	-1500		P
HT2021-03-004	+1500		P
HT2021-03-005	+1500		P
Supplementary information: Method (a) or (b) according to standard IEC TS 62804-1:2015 is applied.			

4.4 a)	TABLE: Maximum power determination (Final)							P
Test Date [MM/DD/YYYY] start-end .....	2021-05-28							—
Module temperature [°C] low-high .....	25							—
Irradiance [W/m <sup>2</sup> ] low-high .....	1000							—
Sample #	Voc [V]	Isc [A]	Vmp [V]	Imp [A]	FF [%]	Pmp [W]	Degradation [%]	Limit [%]
HT2021-03-001	49.577	13.399	41.427	12.736	79.4	527.608	0.25	±1
HT2021-03-002	49.131	13.316	40.982	12.556	78.7	514.569	2.34	-5
HT2021-03-003	49.318	13.299	41.071	12.548	78.6	515.360	2.50	-5
HT2021-03-004	49.209	13.348	41.282	12.670	79.6	523.053	1.01	-5
HT2021-03-005	49.168	13.342	41.195	12.679	79.6	522.327	1.14	-5
Supplementary information: Crystalline silicon module: Pmp degradation after this test ≤ 5%								



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Clause	Requirement + Test	Result--Remark	Verdict
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4.4 b)	TABLE: Performance at low irradiance (Final)					P
Test Date [MM/DD/YYYY] .....	2021-05-28					—
Ambient air temperature [°C] .....	25					—
Irradiance [W/m <sup>2</sup> ](200 W/m <sup>2</sup> ) .....	200					—
Module temperature [°C] .....	25					—
Test method .....	<input type="checkbox"/> Data corrected to a 25°C cell temperature and 200 W/m <sup>2</sup> irradiance <input checked="" type="checkbox"/> Directly measured					—
Data corrected to a 25°C cell temperature and 200 W/m <sup>2</sup> irradiance						
Sample #	Voc [V]	Isc [A]	Vmp [V]	Imp [A]	Pmp [W]	FF [%]
HT2021-03-002	45.765	2.712	38.612	2.510	96.924	78.1
HT2021-03-003	46.080	2.719	38.763	2.523	97.791	78.0
HT2021-03-004	45.851	2.716	39.170	2.575	100.854	81.0
HT2021-03-005	45.839	2.716	39.073	2.577	100.699	80.9
Supplementary information:						

4.4 c)	TABLE: Wet leakage current test (Final)				P
Test Date [MM/DD/YYYY] .....	2021-05-28				—
Test voltage applied [V] .....	1500				—
Module maximum system voltage rating (V, DC) :	1500				—
Solution resistivity [Ω cm], < 3,500 Ω cm at 22 ± 3 °C :	2031				—
Sample No.	Measured [MΩ]		Limit [MΩ]		Verdict
HT2021-03-001	1963		15.50		P
HT2021-03-002	1522		15.50		P
HT2021-03-003	1728		15.50		P
HT2021-03-004	1413		15.50		P
HT2021-03-005	1637		15.50		P
Supplementary information: Size of module is 2.22/2.01 m <sup>2</sup> .					

4.4 d)	TABLE: Electroluminescence (Final)		—
Test Date [MM/DD/YYYY] start/end .....	2021-05-28		—
Supplementary information: See pictures in annex 4			



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<b>Clause</b>	<b>Requirement + Test</b>	<b>Result--Remark</b>	<b>Verdict</b>

<b>4.4 e)</b>	<b>TABLE: Visual inspection (Final)</b>		P
Test Date [MM/DD/YYYY].....:	2021-05-28		—
Sample No.	Nature and position of initial findings – comments or attach photos	Verdict	
HT2021-03-001	No major visual defects	P	
HT2021-03-002	No major visual defects	P	
HT2021-03-003	No major visual defects	P	
HT2021-03-004	No major visual defects	P	
HT2021-03-005	No major visual defects	P	
Supplementary information:N/A			



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Clause	Requirement + Test	Result--Remark	Verdict
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**Annex 1: List of measurement equipment**

Clause	Measurement / testing	Testing / measuring equipment / material used, (Equipment ID)	Range used	Last Calibration date	Calibration due date
MQT01	—	pql-s0927	—	2019-12-06	2020-12-05
MQT01	—	pql-y0001	—	—	—
MQT02、MQT06、MQT07	—	200273000000247	—	2021-04-07	2022-04-06
MQT03、MQT15	—	pql-s1174	—	2020-06-12	2021-06-11
MST13	—	pql-s1177	—	2020-11-09	2022-11-08
PID	—	pql-s1164	—	2020-08-31	2021-08-30
PID	—	pql-s1110	—	2020-12-22	2021-12-21

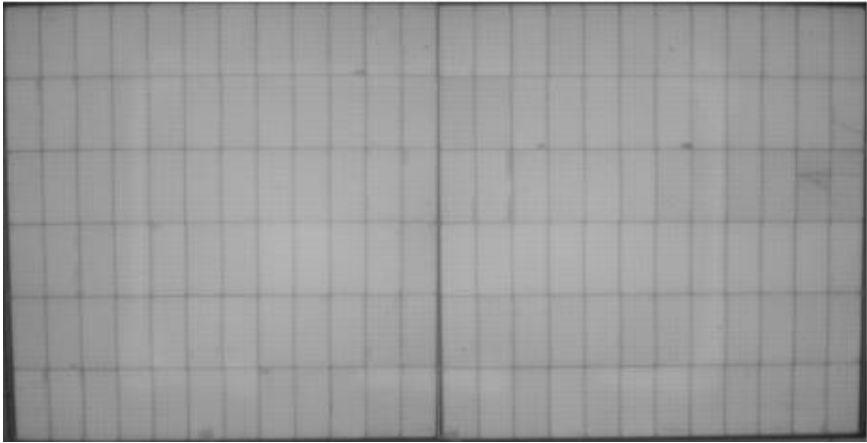
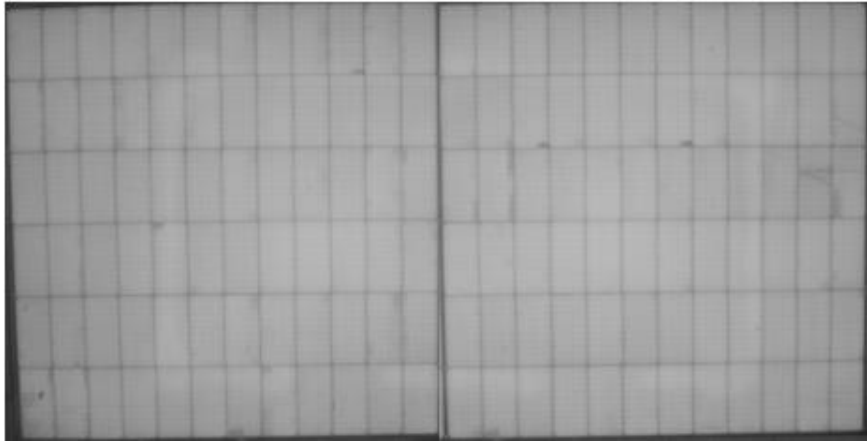
**Annex 2: Statement of the estimated uncertainty of the test results**

Pmax measurement uncertainty: 2.80%(K=2)  
 Voc measurement uncertainty: 1.60%(K=2)  
 Isc measurement uncertainty: 2.80%(K=2)



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<b>Clause</b>	<b>Requirement + Test</b>	<b>Result--Remark</b>	<b>Verdict</b>

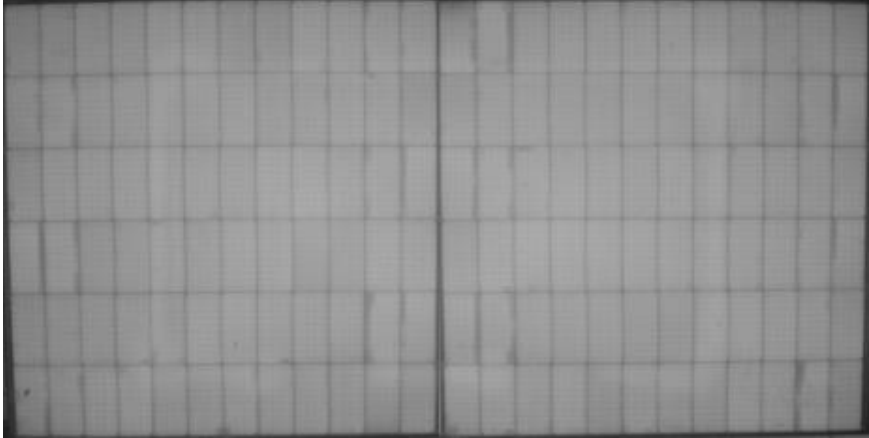
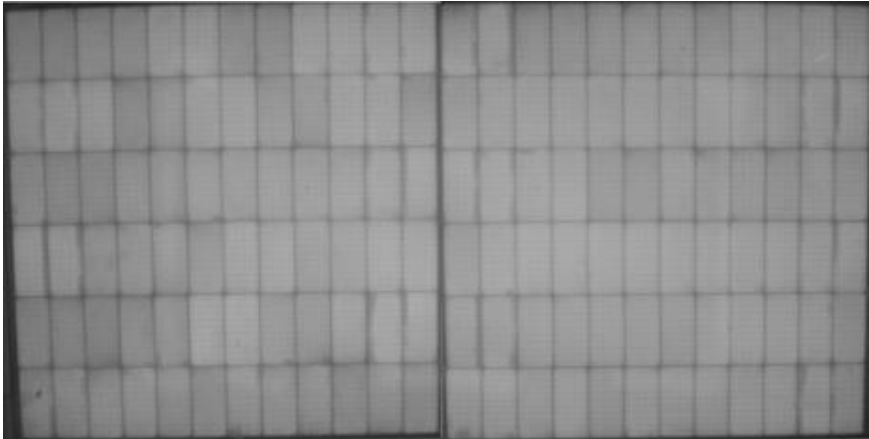
**Annex 3: EL pictures before and after PID stress test with current Isc or 0.5Isc**

		EL picture	
Sample #	Status	picture	
HT2021-03-001	Initial		
	Final		



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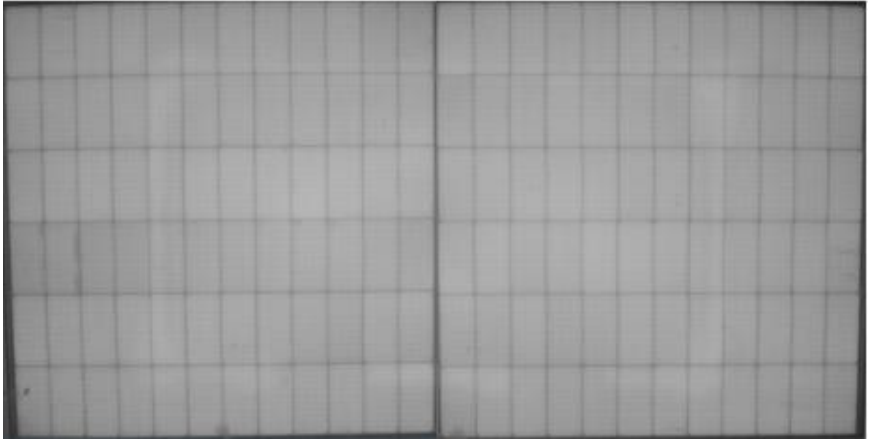
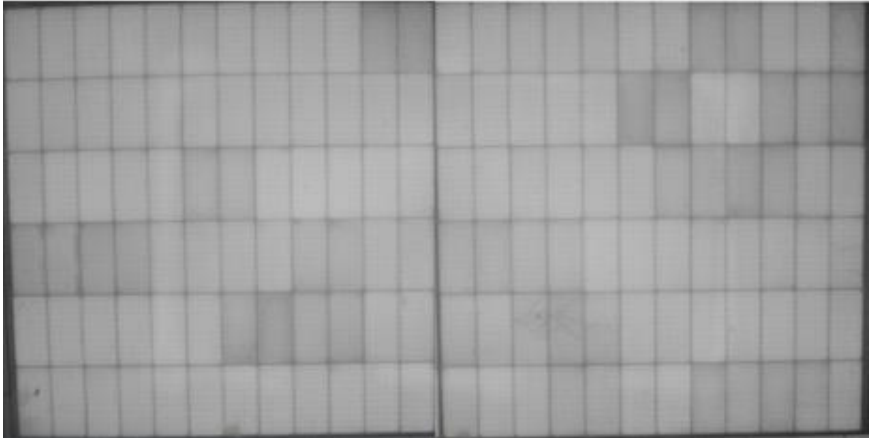
Clause	Requirement + Test	Result--Remark	Verdict
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	Initial		
HT2021-03-002	Final		



PPP 58042B:2015 Rev. 01/2019-09 according to IEC TS 62804-1:2015

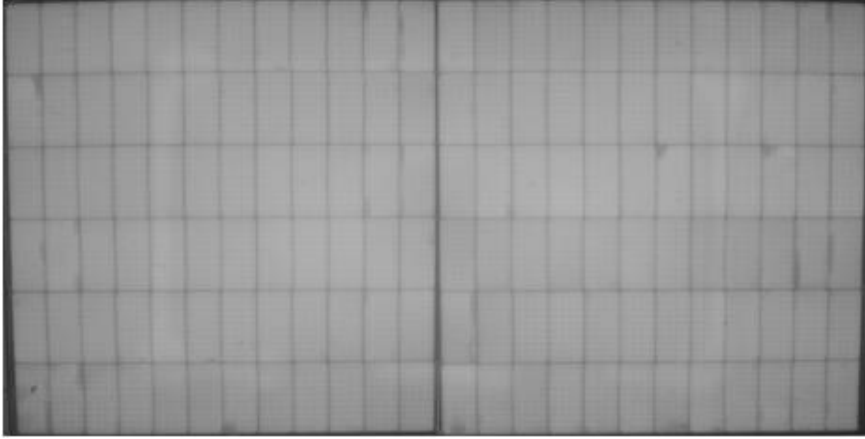
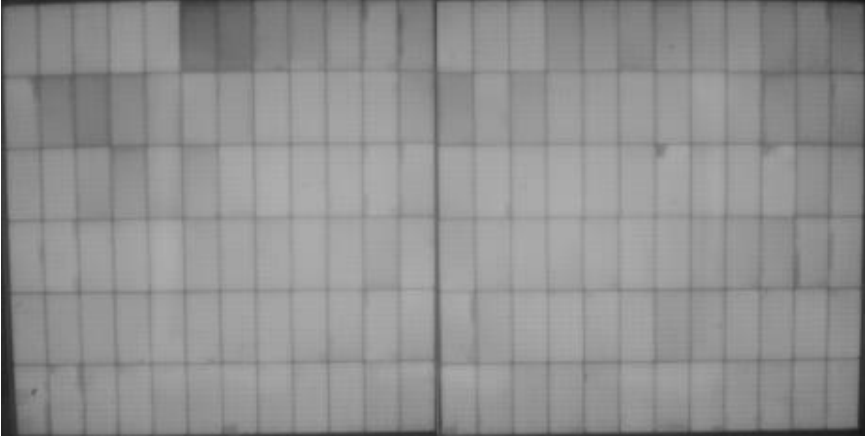
Clause	Requirement + Test	Result--Remark	Verdict
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HT2021-03-003	Initial		
	Final		



PPP 58042B:2015 Rev. 01/2019-09 according to IEC TS 62804-1:2015

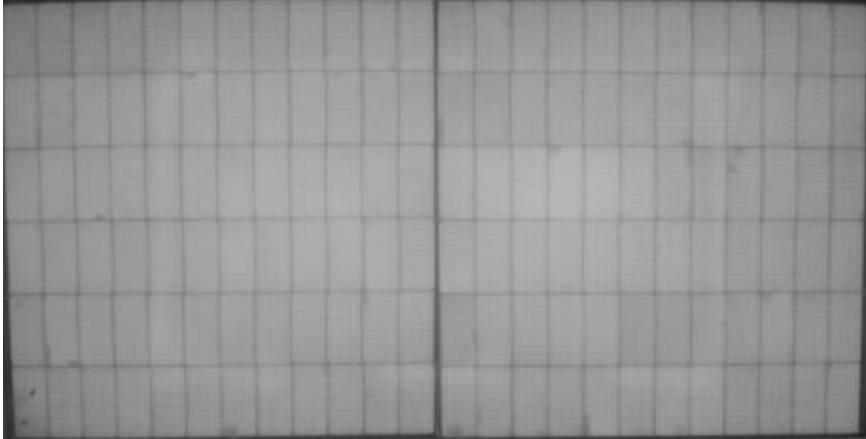
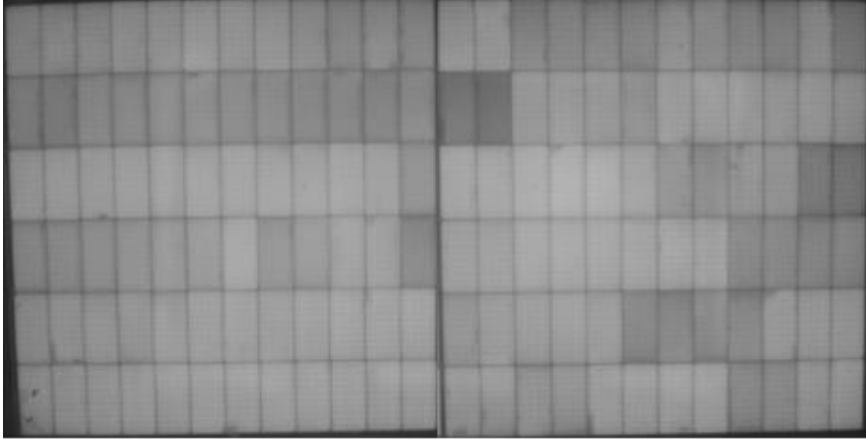
Clause	Requirement + Test	Result--Remark	Verdict
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	Initial	 A grayscale photograph of a grid pattern, likely a test surface, showing a regular grid of squares.	
HT2021-03-004	Final	 A grayscale photograph of a grid pattern, similar to the initial image, but with some dark, irregular spots or artifacts visible on the grid.	





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Clause	Requirement + Test	Result--Remark	Verdict
HT2021-03-005	Initial		
	Final		
Note	N/A		

-- END OF REPORT --