



中国认可
国际互认
检测
TESTING
CNAS L0128



W02214600137E

检测报告

Test Report

(Relatório de testes em laboratório)



6eT7WXFB

Name of Sample	PV module (450 W monocristalino bifacial)
Gegenstand der Prüfung	
Type	ESPHSC450
Tipo de modulo	
Applicant	Zhejiang ERA Solar Technology Co., Ltd.
Requerente	
Test Purpose	Entrusted Tests
Finalidade do teste	

上海市质量监督检验技术研究院
Shanghai Institute of Quality Inspection and Technical Research



Shanghai Institute of Quality Inspection and Technical Research

Test Report

Report No. : W02214600137E

Page: 1 / 14

Name of Sample <i>Gegenstand der Prüfung</i>	PV module (450 W monocristalino bifacial)	Test Purpose <i>Finalidade do teste</i>	Entrusted Tests
Type <i>Tipo de módulo</i>	ESPHSC450	Trade Mark <i>Marca</i>	ERA
Grade <i>Grau</i>	Qualified products		
Applicant Recorrente	Zhejiang ERA Solar Technology Co., Ltd.		
Tested Company <i>Testado empresa</i>	/		
Producer <i>Produtor</i>	/		
Number of Client <i>Número de cliente</i>	6004137	Entrusting/Sampling Date <i>Data De entrega</i>	14th Mar,2022
Reception Date <i>Data de recepção:</i>	14th Mar,2022	Sampling Spot <i>Local de amostragem</i>	/
Sample Quantity <i>Quantidade de amostra</i>	2 pcs	Sum of Sample <i>Soma de amostra</i>	/
Date of Production <i>Data De produção</i>	/	Original Number <i>Número de serie</i>	/
Situation of Sample <i>Situação Da amostra</i>	Intact Sent by client		
Testing Place <i>Local de realização dos testes:</i>	No.900 Jiangyue Rd, Shanghai		
Test Standard <i>Identificação dos testes</i>	IEC 61215:2005 Crystalline Silicon Terrestrial Photovoltaic(PV) Modules-Design Qualification and Type Approval		
Date of Testing <i>Data do teste</i>	15th Mar,2022 to 15th Mar,2022		
Conclusion <i>Conclusão</i>	The test report only offers a single testing conclusion; See the details on the page of summary.		
Client's Message <i>Mensagem do cliente</i>	Add. <i>Endereço</i>	Sihai Road, Huangyan Economic Development Zone, Taizhou, 318020 P. R. China	
	Zip Code	318020	Tel. 0086-576-84166969
Remarks <i>Observações</i>	The test report only offers the conclusions for the tested items according to the relevant testing standards which are not included the conclusions of the untested items or performances. The test report has two versions, one in English, the other in Portuguese. The English one is in priority. The test items are not accredited; they shall only be used for technical research, education or internal quality control purpose. The test report is for INMETRO testing.		



Approved by: 谢磊雷 主任

谢磊雷

Checked by:

陈苏声

Tested by:

刘英彬

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 2 / 14

Collection of The Test Results					
<i>Coleção de testes</i>					
No. <i>Número</i>	Test Items <i>Definição de funções</i>	Technical Requirements <i>Requisitos técnicos</i>	Test Results <i>Resultados de teste</i>	Judgements by Single Item <i>Juizados de valor por item único</i>	Remarks <i>Observações</i>
1	Visual inspection <i>Inspeção visual</i>	IEC 61215:2005 10.1	Page 4	Complies	/
2	Insulation test <i>Teste de isolamento de</i>	IEC 61215:2005 10.3	Page 5	Complies	/
3	Performance at STC <i>O desempenho Na STC de</i>	IEC 61215:2005 10.6	Page 6	Complies	/
4	Wet leakage current test <i>Teste de fuga de corrente molhada de</i>	IEC 61215:2005 10.15	Page 7	Complies	/
Supplementary information: none <i>Informação suplementar: nenhuma</i>					

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 3 / 14

Test item description <i>Teste item descrição</i>																	
List of Test Samples: <i>Lista de amostras:</i>																	
Sample # <i>Amostra</i>	Model <i>Modelo</i>	S/N															
1.	ESPHSC450	AS141804016665															
2.	ESPHSC450	AS141804016666															
Abbreviations: <i>Abreviaturas:</i> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Pmax– Maximum power</td> <td style="width: 33%;">STC – Standard Test Conditions</td> <td style="width: 33%;">Voc – Open Circuit Voltage</td> </tr> <tr> <td><i>Pmax- Potência maxima</i></td> <td><i>STC- Condições normais de ensaio</i></td> <td><i>Voc –Circuito aberto de tensão</i></td> </tr> <tr> <td>Vmp – Maximum Power Voltage</td> <td>FF –Fill Factor</td> <td>Imp – Maximum Power Current</td> </tr> <tr> <td><i>Vmp –Potência maxima</i></td> <td><i>FF- Enches o Factor</i></td> <td><i>Imp- Potência máxima actual</i></td> </tr> <tr> <td>Isc – Short Circuit Current</td> <td><i>Isc- Curto circuito atual</i></td> <td></td> </tr> </table>			Pmax– Maximum power	STC – Standard Test Conditions	Voc – Open Circuit Voltage	<i>Pmax- Potência maxima</i>	<i>STC- Condições normais de ensaio</i>	<i>Voc –Circuito aberto de tensão</i>	Vmp – Maximum Power Voltage	FF –Fill Factor	Imp – Maximum Power Current	<i>Vmp –Potência maxima</i>	<i>FF- Enches o Factor</i>	<i>Imp- Potência máxima actual</i>	Isc – Short Circuit Current	<i>Isc- Curto circuito atual</i>	
Pmax– Maximum power	STC – Standard Test Conditions	Voc – Open Circuit Voltage															
<i>Pmax- Potência maxima</i>	<i>STC- Condições normais de ensaio</i>	<i>Voc –Circuito aberto de tensão</i>															
Vmp – Maximum Power Voltage	FF –Fill Factor	Imp – Maximum Power Current															
<i>Vmp –Potência maxima</i>	<i>FF- Enches o Factor</i>	<i>Imp- Potência máxima actual</i>															
Isc – Short Circuit Current	<i>Isc- Curto circuito atual</i>																
Possible test case verdicts: <i>Caso verdicts:</i> - test case does not apply to the test object N/A <i>O caso do teste não é aplicado ao teste object: N/A</i> - test object does meet the requirement..... P (Pass) <i>O teste object conhece a requisição.....: P (Pass)</i> - test object does not meet the requirement.....: F (Fail) <i>- O teste object não conhece a requisição: F (Fail)</i> -test case provides measured values..... — <i>- O caso de ensaio é um valor medido.....: —</i>																	
Supplementary information: none <i>Informação suplementar: nenhuma</i>																	

SHANGHAI INSTITUTE OF QUALITY INSPECTION AND TECHNICAL RESEARCH

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 4 / 14

10.1	Visual inspection INSPEÇÃO VISUAL	P
Test date [DD/MM/YYYY] <i>Data de realização dos testes [DD/MM/AAAA]</i>	15/03/2022	—
Sample # <i>Amostra #</i>	Nature and position of findings <i>Natureza e localização dos desvios</i>	—
1.	No visual defects acc. to IEC 61215:2005 <i>Sem Defeitos visuais de acordo com IEC 61215:2005</i>	P
2.	No visual defects acc. to IEC 61215:2005 <i>Sem Defeitos visuais de acordo com IEC 61215:2005</i>	P
Supplementary information: none <i>Informação suplementar: nenhuma</i>		

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 5 / 14

10.3		Insulation test <i>Teste de isolamento</i>				P
Test date [DD/MM/YYYY] <i>Data de realização dos testes [DD/MM/AAAA]</i>		15/03/2022				—
Maximum system voltage [V_{DC}] <i>Voltagem máxima do sistema [V_{DC}]</i>		1500				—
High voltage applied [V_{DC}] <i>Alta tensão aplicada [V_{DC}]</i>		4000				—
Insulation resistance measured at [V_{DC}] <i>Valor da medição da resistência de isolamento [V_{DC}]</i>		1500				—
Sample # <i>Amostra #</i>	Area <i>Área</i>	Required <i>Valores-limite</i>	Measured <i>Medida</i>	Dielectric breakdown <i>Quebra dielétrica</i>		Result* <i>Resultado*</i>
	m ²	M Ω	M Ω	Yes (description) <i>Sim (descrição)</i>	No(description) <i>Não</i>	
1.	2.17	≥ 18.4	42150	/	No	P
2.	2.17	≥ 18.4	38690	/	No	P
*Supplementary information: Minimum requirement acc. to the standard is 40.0 M Ω *m ² . <i>*Informação suplementar: Os requisitos mínimos de acordo com a norma são 40.0 MΩ*m²</i>						

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 6 / 14

10.6		Performance at STC <i>O DESEMPENHO NA STC</i>					P ¹
Test date [DD/MM/YYYY] <i>Data de realização dos testes [DD/MM/AAAA]</i>		15/03/2022					—
Radiant Source <i>Radiante da fonte</i>		<input checked="" type="checkbox"/> Solar Simulator <i>Do simulador Solar</i>		<input type="checkbox"/> Natural Sunlight <i>Natural de luz do sol</i>		—	
Module temperature [°C] <i>Temperatura do módulo [°C]</i>		25.0±0.5					—
Irradiance [W/m ²] <i>Irradiação [W/m²]</i>		1000±10					—
Sample # <i>Amostra #</i>	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmax [W]	FF [%]	
1.	49.55	42.01	11.25	10.76	452.03	81.09	
2.	49.60	42.00	11.24	10.77	452.34	81.14	
<p>Supplementary information: <i>Informação suplementar:</i></p> <p>Measurements were performed at standard test conditions (STC) with a flash light solar simulator class AAA acc. to IEC 61215:2005. <i>As medições foram realizadas em condições padrão (STC) com um simulador solar de flash (flasher) classe AAA de acordo com a IEC 61215:2005.</i></p> <p>*measured graphs see IV curves in Photos of modules. <i>*para os valores medidos ver curvas IV no Fotos dos módulos.</i></p> <p>The discrepancy between the labelled power value and the measured value shall not exceed the limit of -5%~10%. <i>A discrepância entre o valor de potência indicada no rotulo e o valor medido não deve exceder o limite de -5%~10%.</i></p> <p>The measuring uncertainty of Pmax is ≤ ±2.1%. <i>A incerteza de medição para Pmax é ≤ ±2.1%.</i></p> <p>The measuring uncertainty of Isc is ≤ ±2.0% . <i>A incerteza de medição para Isc é ≤ ±2.0% .</i></p> <p>The measuring uncertainty of Voc is ≤ ±0.8% <i>A incerteza de medição para Voc é ≤ ±0.8%.</i></p> <p>Measuring uncertainty includes spectral mismatch error. <i>A incerteza de medição inclui os erros por desvios no espectro.</i></p>							

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 7 / 14

10.15	Wet leakage current test <i>Teste de fuga de corrente molhada</i>			P
Test date [DD/MM/YYYY] <i>Data de realização dos testes [DD/MM/AAAA]:</i>	15/03/2022		—	
Insulation resistance measured at [V_{DC}] <i>Valor da medição da resistência de isolamento [V_{DC}]</i>	1500		—	
Solution temperature [$^{\circ}C$] <i>Temperatura da solução [$^{\circ}C$]</i>	22±3	22.2	—	
Solution resistivity [Ω cm] <i>Resistencia da solução [Ω cm]</i>	≤3500	2137	—	
Sample # <i>Amostra #</i>	Area <i>Área</i> [m ²]	Required <i>Valores-limite</i> [M Ω]	Measured <i>Medida</i> [M Ω]	Result* <i>Resultado*</i>
1.	2.17	≥18.4	5237	P
2.	2.17	≥18.4	4210	P
*Supplementary information: Minimum requirement acc. to the standard is 40.0 M Ω *m ² . <i>*Informação suplementar: Os requisitos mínimos de acordo com a norma são 40.0 MΩ*m²</i>				

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 8 / 14

Photos of modules

Fotos dos módulos

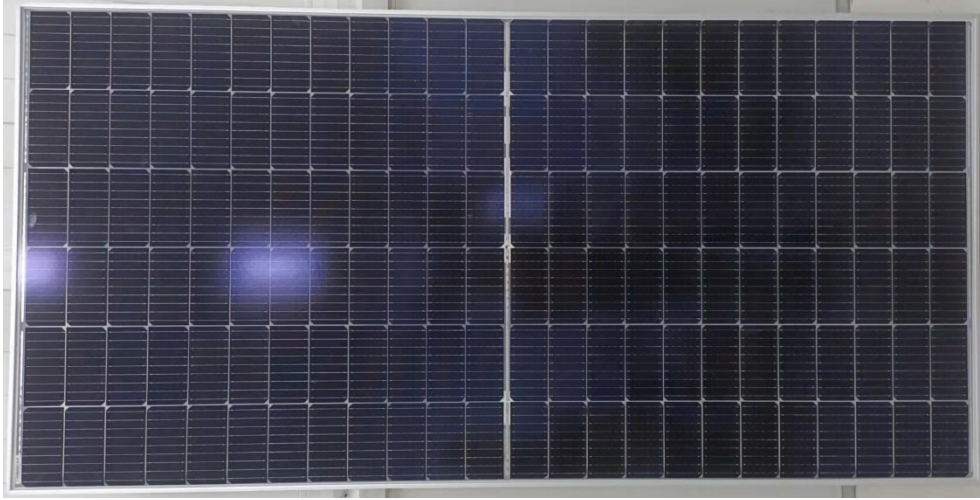


Fig. 1: Front view of module type ESPHSC450

Fig. 1: Vista frontal do tipo de módulo ESPHSC450



Fig. 2: Rear view of module type ESPHSC450

Fig. 2: Vista da parte traseira do tipo de módulo ESPHSC450

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 9 / 14

Photos of modules

Fotos dos módulos



Fig. 3: View of junction box of module type ESPHSC450

Fig. 3: Vista detalhada da caixa de junção do tipo de módulo ESPHSC450



ERA[®] SOLAR	Tensão em Pmax(Vmp)	41.5 V	Eficiência	20,7% (207,03Wp/m ²)	 RoHS CE 
	Corrente em Pmax(Imp)	10.85 A	Maxima tensão do sistema	1500 V	
	Corrente de curto circuito (Isc)	11.6 A	Classe de aplicação	Classe A	
	Tensão de circuito aberto (Voc)	49.3 V	Todas informações técnicas nas condições padrão de teste		
	Temperatura de operação	-40 °C~+85 °C	AM:1.5 1:1000 W/m ² 25°C		
Modelo	450 W monocristalino bifacial	Dimensões	2094x1038x35 mm	ATENÇÃO: RISCO ELÉTRICO Não conectar ou desconectar o sistema quando energizado. Isso pode acarretar choque elétrico ou situações perigosas. Fabricado na China	
Código	ESPHSC450				
Potência Máxima	450 W				

Fig. 4: View of type label of module type ESPHSC450

Fig.4: Vista detalhada da placa de características do tipo de módulo ESPHSC450

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 10 / 14

Electroluminescence images

Imagens de eletroluminescência

Analysis of electroluminescence images with respect to micro cracks (EL photos)

Análise de imagens de eletroluminescência referente a Microfissuras

Test date [DD/MM/YYYY] <i>Data de realização dos testes [DD/MM/AAAA]</i>		15/03/2022
Sample # <i>Amostra #</i>	Reverse current applied [A] <i>Corrente inversa aplicada [A]</i>	Attributes <i>Atributos</i>
1.	Isc ± 5%	N/A
2.	Isc ± 5%	N/A
Supplementary information: none <i>Informação suplementar: nenhuma</i>		

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 11 / 14

Energy efficiency class

Classe de eficiência energética

Sample # <i>Amostra #</i>	Module width <i>Largura do módulo</i> [mm]	Module length <i>Comprimento do módulo</i> [mm]	Module area <i>área módulo</i> [m ²]	Module power* <i>potência módulo*</i> [W]	Module efficiency <i>eficiência do módulo</i> [%]
1.	1038	2094	2.17	450	20.7
2.	1038	2094	2.17	450	20.7

*Supplementary information: *see rating label in Photos of modules*

*Informação suplementar: *Ver a etiqueta de classificação no Fotos dos módulos*

Sample # <i>Amostra #</i>	Module type <i>Tipo de módulo</i>	Module efficiency <i>eficiência do módulo</i> [%]	Energy efficiency class <i>Classe de eficiência energética</i>
1.	ESPHSC450	20.7	A
2.	ESPHSC450	20.7	A

Supplementary information: Energy efficiency > 13.5% : classes A;

Informação suplementar: Eficiência Energética > 13.5%: Classe A;

Energy efficiency classes

Classe de Eficiência Energética

A > 13.5%

13% < B ≤ 13.5%

12% < C ≤ 13%

11% < D ≤ 12%

E < 11%

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 12 / 14

Photos of modules

Fotos dos módulos

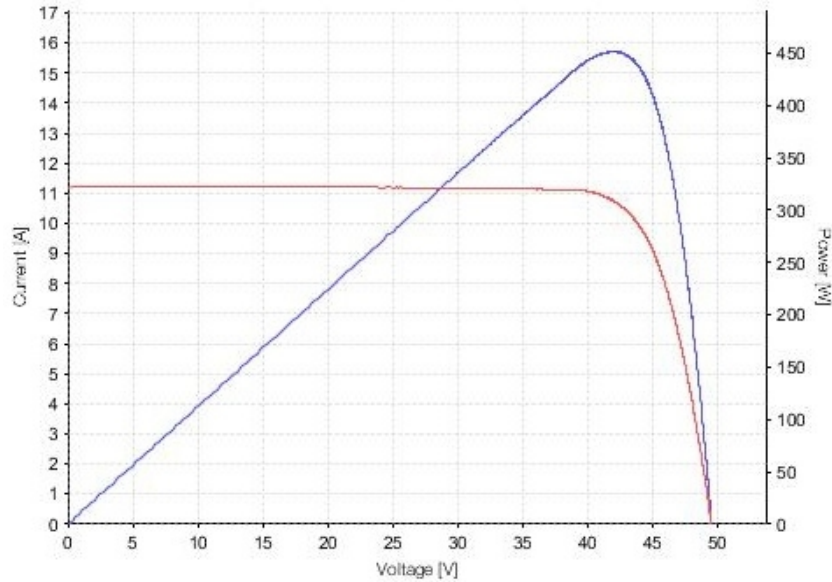


Fig. 5 IV curve of module No.1 Serial number: AS141804016665

Fig. 5 IV curva de módulo No.1 Número de série: AS141804016665

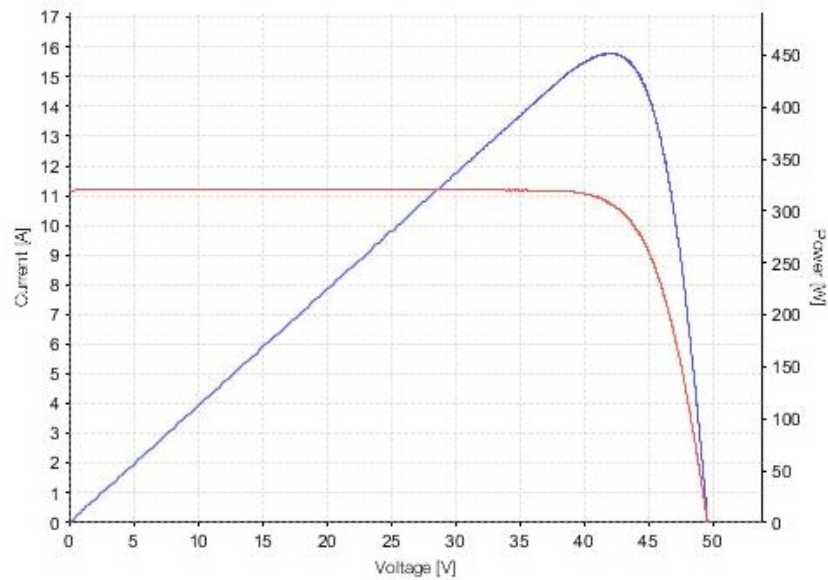


Fig. 6 IV curve of module No.2 Serial number: AS141804016666

Fig. 6 IV curva de módulo No.2 Número de série: AS141804016666

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 13 / 14

EL images

Imagens de electroluminescência

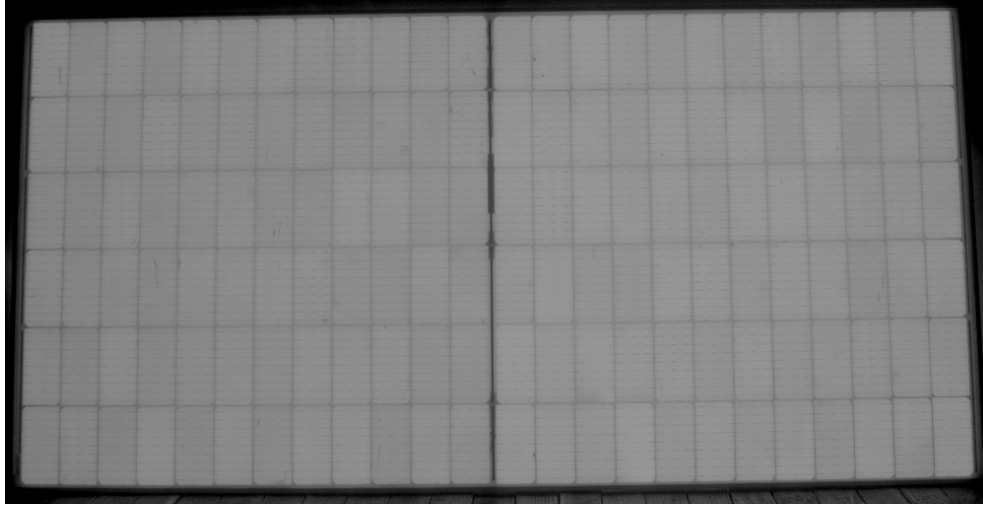


Fig. 7 EL photo of module No.1 Serial number: AS141804016665

Fig. 7 EL fotografia de módulo No.1 Número de série: AS141804016665

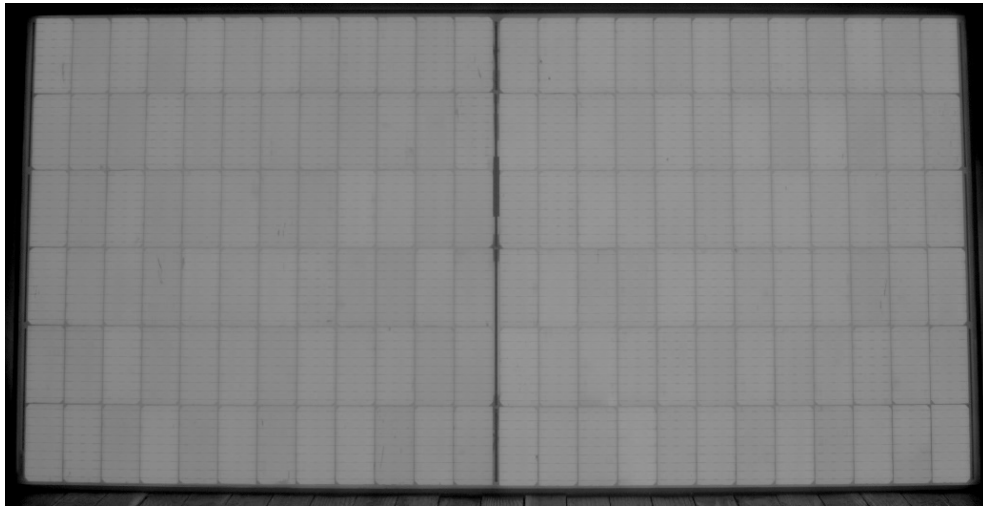


Fig. 8 EL photo of module No.2 Serial number: AS141804016666

Fig. 8 EL fotografia de módulo No.2 Número de série: AS141804016666

Test Report

Report No. : W02214600137E

Shanghai Institute of Quality Inspection and Technical Research

Page: 14 / 14

List of measurement equipment *Lista de equipamentos de medição*

Clause	Measurement / testing	Testing / measuring equipment / material used, (Equipment ID)	Range used	Last Calibration date	Calibration due date
10.1	Visual inspection	Digital illuminometer DZ-B-A1-0200	0~2000lux	2022-02-25	2023-02-24
		Band tape DZ-B-A1-0014	3.5m	2021-09-02	2024-09-01
10.3	Insulation test	Insulation tester DZ-A-A1-0258	0~6kV, 1~50GΩ	2021-05-06	2022-05-05
10.6	Performance at STC	Pulse solar simulator DZ-A-A2-0156	200~1200W/m ²	2021-09-17	2022-09-16
		Reference module DZ-B-A1-0176	c-Si	2022-03-04	2023-03-03
10.15	Wet leakage current	Insulation tester DZ-A-A1-0258	0~6kV, 1~50GΩ	2021-05-06	2022-05-05
		Conductivity meter DZ-B-A2-0055	0μS/cm~100mS/ cm, 0.0~60.0 °C	2021-05-27	2022-05-26
/	EL image	EL camera DZ-A-A1-0274	/	2019-08-27	2029-08-26
		Power supply DZ-A-A1-0009	160V 50A	2021-12-29	2022-12-28

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- 2、对送样委托检测报告若有异议，应于报告收到之日起十五日内向本质检机构提出，逾期不予受理。

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- 食品化学产品质量检验所(代码 SP) / 国家食品质量检验检测中心(上海) / 国家保洁产品质量检验检测中心 / 上海市食品质量监督检验站**
Institute of Quality Inspection of Food and Chemicals (SQI_SP) / National Center of Quality Inspection and Testing on Food Products (Shanghai) / National Center of Quality Inspection and Testing on Cosmetics and Cleaning Products / Shanghai Municipal Station of Quality Supervision and Inspection of Food Products
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