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TESTING
CNAS L0128



W02214600120E

检测报告

Test Report

(Relatório de testes em laboratório)



6TkJZA8E

Name of Sample

PV module (545 W monocristalino)

Gegenstand der Prüfung

Type

ESPHSC545

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

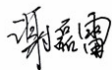
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Name of Sample <i>Gegenstand der Prüfung</i>	PV module (545 W monocristalino)	Test Purpose <i>Finalidade do teste</i>	Entrusted Tests
Type <i>Tipo de módulo</i>	ESPHSC545	Trade Mark <i>Marca</i>	ERA
Grade <i>Grau</i>	Qualified products		
Applicant 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>	6004120	Entrusting/Sampling Date <i>Data De entrega</i>	10th Mar,2022
Reception Date <i>Data de recepção:</i>	10th 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. <div style="text-align: right;">  <p>Test Report Badge Issued Date: 2022.04.22</p> </div>		
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. 0086-576-84160969
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



Checked by:



Tested by:



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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>Juizos 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>					

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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.	ESPHSC545	AS221803037900
2.	ESPHSC545	AS221803037883
Abbreviations: <i>Abreviaturas:</i>		
<p>Pmax – Maximum power <i>Pmax- Potência maxima</i></p> <p>Vmp – Maximum Power Voltage <i>Vmp –Potência maxima</i></p> <p>Isc – Short Circuit Current</p>	<p>STC – Standard Test Conditions <i>STC- Condições normais de ensaio</i></p> <p>FF –Fill Factor <i>FF- Enches o Factor</i></p> <p><i>Isc- Curto circuito atual</i></p>	<p>Voc – Open Circuit Voltage <i>Voc –Circuito aberto de tensão</i></p> <p>Imp – Maximum Power Current <i>Imp- Potência máxima actual</i></p>
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>		

上海质量检验技术研究所
 SHANGHAI INSTITUTE OF QUALITY INSPECTION AND TECHNICAL RESEARCH

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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>		

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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.	2.58	≥ 15.5	42800	/	No	P
2.	2.58	≥ 15.5	45100	/	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>						

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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.	49.89	41.90	13.69	13.07	547.52	80.18	
2.	49.84	41.85	13.69	13.08	547.29	80.20	
<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>							

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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	21.5	—	
Solution resistivity [Ω cm] <i>Resistencia da solução [Ω cm]</i>	≤3500	2132	—	
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.	2.58	≥15.5	7029	P
2.	2.58	≥15.5	7264	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>				

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Photos of modules

Fotos dos módulos

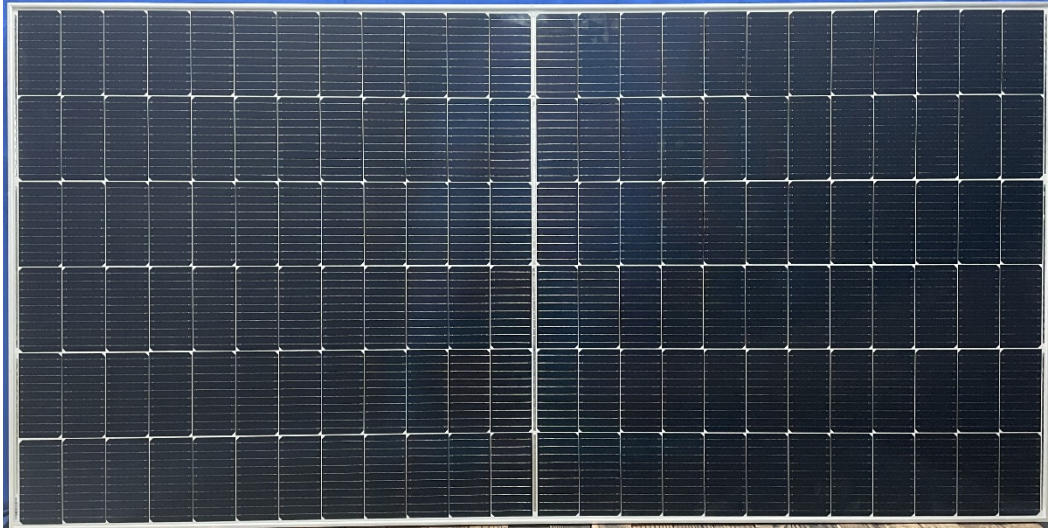


Fig. 1: Front view of module type ESPHSC545

Fig. 1: Vista frontal do tipo de módulo ESPHSC545

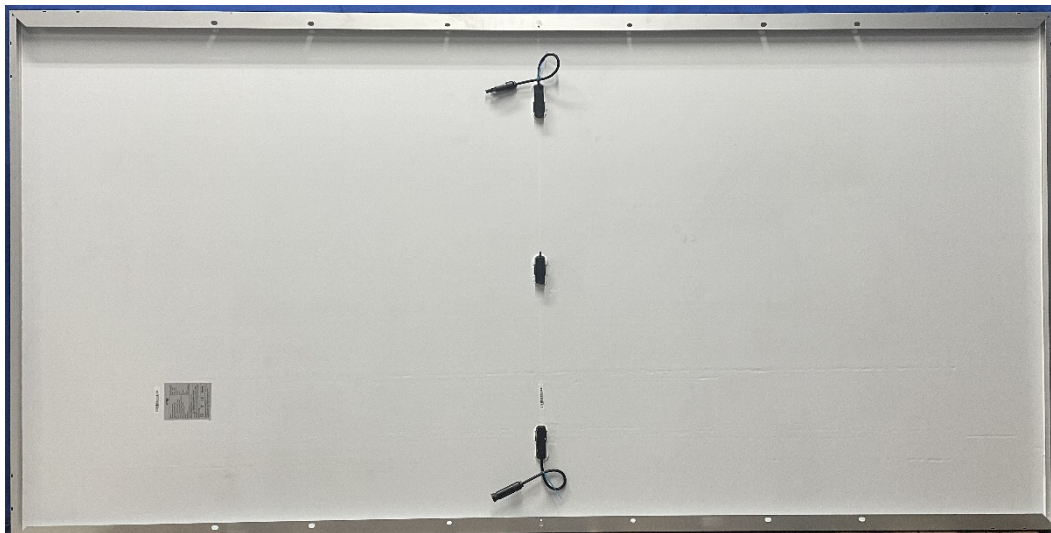


Fig. 2: Rear view of module type ESPHSC545

Fig. 2: Vista da parte traseira do tipo de módulo ESPHSC545

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Photos of modules

Fotos dos módulos



Fig. 3: View of junction box of module type ESPHSC545

Fig. 3: Vista detalhada da caixa de junção do tipo de módulo ESPHSC545




ERA [®] SOLAR	
Model	545 W monocristalino
Modelo	
Code	ESPHSC545
Código	
Maximum power	545 W
Potência Máxima	
Voltage at Pmax(Vmp)	41.8 V
Tensão em Pmax(Vmp)	
Current at Pmax(Imp)	13.09 A
Corrente em Pmax(Imp)	
Short-circuit current(Isc)	13.92 A
Corrente de curto circuito (Isc)	
Open-circuit voltage(Voc)	49.65 V
Tensão de circuito aberto (Voc)	
Dimensions	2279x1134x35 mm
Dimensões	
Efficiency	21,3% (210,88Wp/m2)
Eficiência	
Temperature operating	-40 °C~+85 °C
Temperatura de operação	
Maximum system voltage	1500 V
Maxima tensão do sistema	
Application Class	Class A
Classe de aplicação	Classe A
All technical data at standard test condition Todas informações técnicas nas condições padrão de teste	
AM:1.5	1:1000 W/m ² 25 °C
MADE IN CHINA Fabricado na China	
	WARNING-ELECTRICAL HAZARD. This unit produces electricity when exposed to sunlight. ATENÇÃO: RISCO ELÉTRICO Essa unidade produz eletricidade quando exposta a luz
 	

Fig. 4: View of type label of module type ESPHSC545

Fig.4: Vista detalhada da placa de características do tipo de módulo ESPHSC545

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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>		

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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> [%]	Energy efficiency class <i>Classe de eficiência energética</i>
1.	1134	2279	2.58	545	21.1	A
2.	1134	2279	2.58	545	21.1	A

Supplementary information: none
Informação suplementar: nenhuma

Energy efficiency classes Classe de Eficiência Energética
A > 13.5%
13% < B ≤ 13.5%
12% < C ≤ 13%
11% < D ≤ 12%
E < 11%

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Photos of modules

Fotos dos módulos

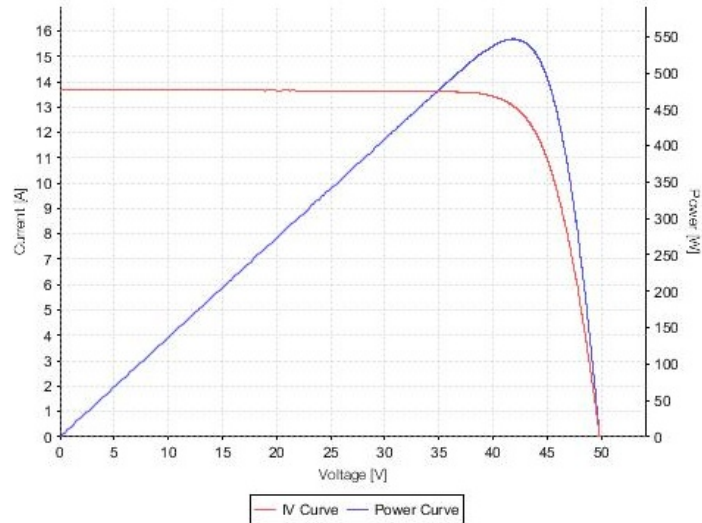


Fig. 5 IV curve of module No.1 Serial number: AS221803037900

Fig. 5 IV curva de módulo No.1 Número de série: AS221803037900

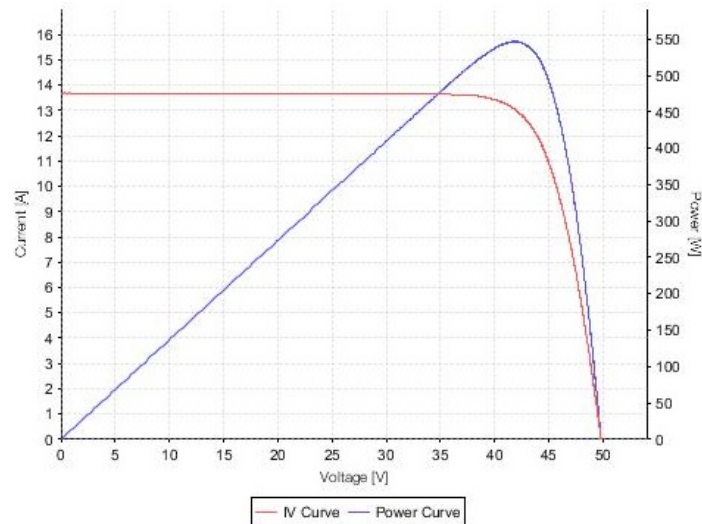


Fig. 6 IV curve of module No.2 Serial number: AS221803037883

Fig. 6 IV curva de módulo No.2 Número de série: AS221803037883

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EL images

Imagens de electroluminescência

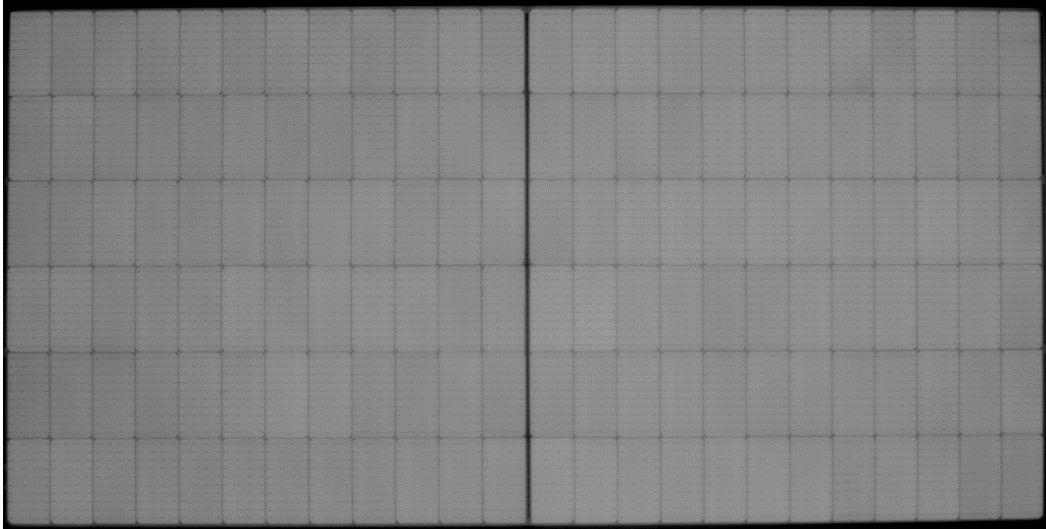


Fig. 7 EL photo of module No.1 Serial number: AS221803037900

Fig. 7 EL fotografia de módulo No.1 Número de série: AS221803037900

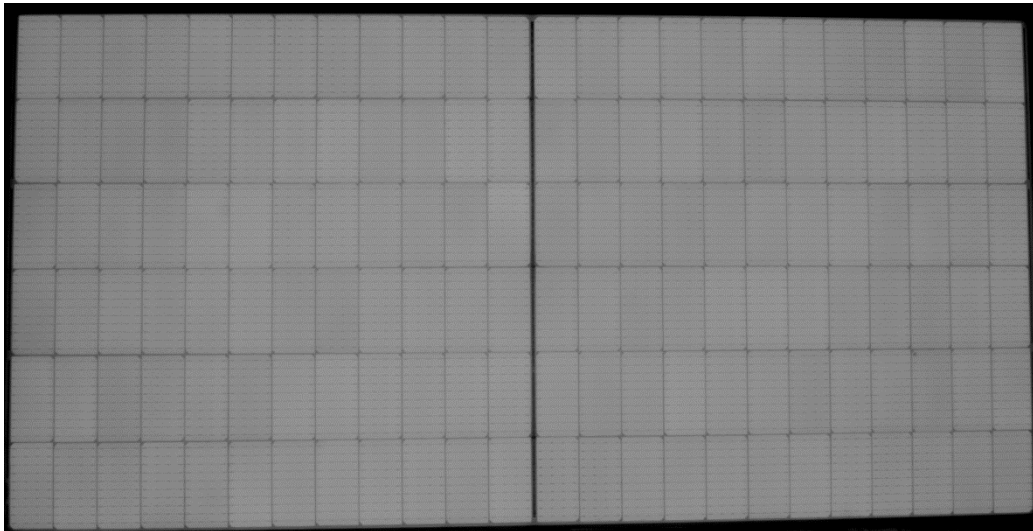


Fig. 8 EL photo of module No.2 Serial number: AS221803037883

Fig. 8 EL fotografia de módulo No.2 Número de série: AS221803037883

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List of measurement equipment

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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