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检测
TESTING
CNAS L0128



W02491600010E

检测报告

Test Report

(Relatório de testes em laboratório)



vuNzIKVk

Name of Sample

545 W monocristalino

Nome da amostra

Type

ESPHSC545

Tipo de modulo

Applicant

Zhejiang ERA Solar Technology Co., Ltd.

Requerente

Test Purpose

Entrusted Tests

Finalidade do teste

Teste de delegação



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



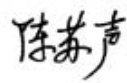
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Name of Sample <i>Nome da amostra</i>	545 W monocristalino	Test Purpose <i>Finalidade do teste</i>	Entrusted Tests <i>Teste de delegação</i>
Type <i>Tipo de módulo</i>	ESPHSC545	Trade Mark <i>Marca</i>	
Grade <i>Nível</i>	Qualified products <i>Produtos qualificados</i>		
Applicant <i>Requerente</i>	Zhejiang ERA Solar Technology Co., Ltd.		
Tested Company <i>Testado empresa</i>	/		
Producer <i>Produtor</i>	Zhejiang ERA Solar Technology Co., Ltd.		
Number of Client <i>Número de cliente</i>	6001010	Entrusting/Sampling Date <i>Data De entrega</i>	2024.01.16
Reception Date <i>Data de recepção:</i>	2024.01.16	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 <i>Está como estava Enviado pelo cliente</i>		
Testing Place <i>Local de realização dos testes:</i>	No.900 Jiangyue Rd, Shanghai		
Test Standard <i>Padrão de testes</i>	IEC 61215-2:2021 Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures		
Judgement Rules <i>Regras de Acórdãos</i>	PORTARIA Nº 140, DE 21 DE MARÇO DE 2022		
Date of Testing <i>Data do teste</i>	2024.01.16 to 2024.01.19		
Conclusion <i>Conclusão</i>	The test report only offers a single testing conclusion; See the details on the page of summary. <i>O relatório de teste fornece apenas uma conclusão de teste. Veja a página de resumo para detalhes.</i> 		
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 <i>Código postal</i>	318020	Tel. <i>O telefone</i>

Approved by: 陈苏声
Aprovado por: 副主任



Checked by: 李松刚
Revisor:

Tested by: 马潇
O testador:

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Collection of The Test Results					
<i>Coleção de testes</i>					
No. <i>Número</i>	Test Items <i>Itens de teste</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 (MQT 01) <i>Inspeção visual(MQT 01)</i>	For the tested PV module, major visual defects do not exist. <i>O modulo não pode apresentar defeitos visuais evidentes.</i>	Page 6 <i>Página 6</i>	Complies <i>Elegível para</i>	/
2	Initial Stabilization (MQT 19.1) <i>Estabilização Inicial (MQT 19.1)</i>	Initial stabilization of c-Si modules shall be obtained by exposing to sunlight with an irradiation dose level of ≥ 10 kWh/m ² . <i>A estabilização inicial dos módulos c-Si deve ser obtida pela exposição à luz solar com um nível de dose de radiação de ≥ 10 kWh/m².</i>	Page 7 <i>Página 7</i>	Complies <i>Elegível para</i>	/

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Collection of The Test Results					
<i>Coleção de testes</i>					
3	<p>Maximum Power Determination (MQT 02)</p> <p><i>Determinação de Potência Máxima (MQT 02)</i></p>	<p>The measured power of the PV module shall not be less than 100% or more than 105%.</p> <p><i>Os módulos não podem apresentar medida de potência menor que 100% ou maior que 105%.</i></p>	<p>Page 8</p> <p><i>Página 8</i></p>	<p>Complies</p> <p><i>Elegível para</i></p>	/
4	<p>Insulation test (MQT 03)</p> <p><i>Teste de isolamento de (MQT 03)</i></p>	<p>For modules area $\geq 0.1 \text{ m}^2$, measured insulation resistance shall be $\geq 40 \text{ M}\Omega \cdot \text{m}^2$.</p> <p>Otherwise, the insulation resistance shall be $\geq 400 \text{ M}\Omega$.</p> <p><i>Com valor de resistência elétrica $\geq 40 \text{ M}\Omega \cdot \text{m}^2$, Para módulos com área maior que 0.1 m^2. Caso contrário, e resistência $\geq 400 \text{ M}\Omega$.</i></p>	<p>Page 9</p> <p><i>Página 9</i></p>	<p>Complies</p> <p><i>Elegível para</i></p>	/
5	<p>Wet leakage current test (MQT 15)</p> <p><i>Teste de fuga de corrente molhada de (MQT 15)</i></p>	<p>Requirements are the same as Insulation test.</p> <p><i>Os requisitos são os mesmos dos Teste de isolamento de.</i></p>	<p>Page 10</p> <p><i>Página 10</i></p>	<p>Complies</p> <p><i>Elegível para</i></p>	/
<p>Supplementary information: none</p> <p><i>Informação suplementar: nenhuma</i></p>					

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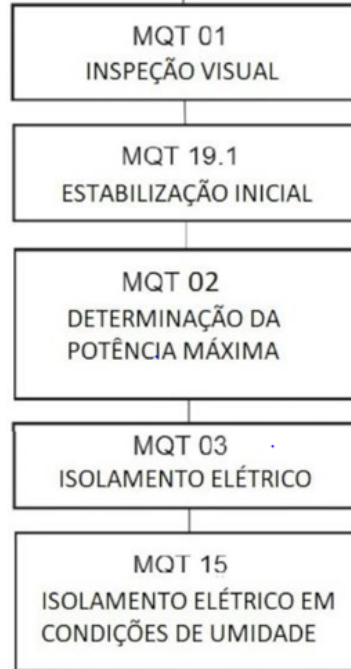
Test item description

Teste item descrição

Figura 1 - Fluxograma de ensaios de módulos

1 MÓDULO
(CONTROLE)

1 MÓDULO
(PROVA)



List of Test Samples:

Lista de amostras:

Sample # <i>Amostra</i>	Model <i>Modelo</i>	S/N	Remark <i>Observações</i>
1.	ESPHSC545	AS22200108899	Test <i>PROVA</i>
2.	ESPHSC545	AS22200108898	Control <i>Controlo</i>

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Test item description <i>Teste item descrição</i>		
Abbreviations: <i>Abreviaturas:</i>		
Pmax – Maximum power	STC – Standard Test Conditions	Voc – Open Circuit Voltage
<i>Pmax- Potência máxima</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 máxima</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</i>	<i>N/A</i>	
- test object does meet the requirement	P (Pass)	
<i>O teste object conhece a requisição.....</i>	<i>P (Passe isso)</i>	
- test object does not meet the requirement.....	F (Fail)	
<i>- O teste object não conhece a requisição</i>	<i>F (Não passou)</i>	
-test case provides measured values.....	—	
<i>- O caso de ensaio é um valor medido</i>	<i>—</i>	
Remarks:		
<i>Observações:</i>		
1、 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. <i>O relatório de teste fornece as conclusões do projeto de teste com base apenas nos critérios de teste relevantes e não inclui conclusões de projetos não testados ou desempenho.</i>		
2、 The test report has two versions, one in English, the other in Portuguese. The English one is in priority. <i>O relatório de teste está disponível em duas versões, uma em inglês e outra em português. A grã - bretanha tem prioridade.</i>		
3、 Notices, Statement and Subordinate Units of SQI are the parts of this report. <i>Notas, declarações e subordinados do SQI fazem parte deste relatório.</i>		

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4.1	Visual inspection INSPEÇÃO VISUAL	P
Test date [DD/MM/YYYY] <i>Data de realização dos testes [DD/MM/AAAA]</i>	16/01/2024	—
Sample # <i>Amostra #</i>	Nature and position of findings <i>Natureza e localização dos desvios</i>	—
1	No visual defects acc. to PORTARIA Nº 140, DE 21 DE MARÇO DE 2022 <i>Sem Defeitos visuais de acordo com PORTARIA Nº 140, DE 21 DE MARÇO DE 2022</i>	P
Supplementary information: none <i>Informação suplementar: nenhuma</i>		

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4.19.5		Initial Stabilization ESTABILIZAÇÃO INICIAL					P	
Light exposure method <i>Método de exposição à luz</i>			<input type="checkbox"/> Solar simulator <i>Simulador solar</i>		<input checked="" type="checkbox"/> Natural sunlight <i>Luz solar natural</i>			
Stabilization criterion x per IEC 61215-1-x <i>Critério de estabilização x por IEC 61215-1-x</i>			1					
Sample # <i>Amostra #</i>	1	Test date [DD/MM/YYYY] start-end <i>Data de realização dos testes</i> <i>[DD/MM/AAAA] início/fim</i>			16/01/2024-18/01/2024			
Test cycle <i>Ciclo de teste</i>	Integrated irradiation (kWh/m ²) <i>Irradiação integrada</i> (kWh/m ²)	Irradiance (W/m ²) <i>Irradiância</i> (W/m ²)	Module temperature (°C) <i>Temperatura do módulo</i> (°C)	Resistive load <i>Carga resistiva</i>	P _{max} (W) at the end of cycle <i>Pmax (W) no final do ciclo</i>	(P _{max} - P _{min}) / P _{average} (%) <i>(Pmax - Pmin) / Paverage (%)</i>	Stable (Yes/No) <i>Estábulo (Sim/Não)</i>	
Initial <i>Inicial</i>	—	—	—	—	547.14	—	—	
1	5	>500	—	MPPT	547.03	—	—	
2	10	>500	—	MPPT	547.01	0.02	Yes	
Supplementary information: none <i>Informação suplementar: nenhuma</i>								

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4.2		Maximum Power Determination <i>Determinação de Potência Máxima</i>				P ¹
Test date [DD/MM/YYYY] <i>Data de realização dos testes [DD/MM/AAAA]</i>		18/01/2024				—
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				—
Irradiance [W/m ²] <i>Irradiação [W/m²]</i>		1000				—
Sample # <i>Amostra #</i>	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmax [W]	FF [%]
1	49.59	41.33	13.92	13.24	547.01	79.23
<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 61215-2:2021. <i>As medições foram realizadas em condições padrão (STC) com um simulador solar de flash (flasher) classe AAA de acordo com a IEC 61215-2:2021.</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>¹ The measured power of the PV module shall not be less than 100% or more than 105%. <i>¹Os módulos não podem apresentar medida de potência menor que 100% ou maior que 105%.</i></p> <p>The measuring uncertainty of Pmax is $\leq \pm 2.1\%$. <i>A incerteza de medição para Pmax é $\leq \pm 2.1\%$.</i></p> <p>The measuring uncertainty of Isc is $\leq \pm 2.0\%$. <i>A incerteza de medição para Isc é $\leq \pm 2.0\%$.</i></p> <p>The measuring uncertainty of Voc is $\leq \pm 0.8\%$. <i>A incerteza de medição para Voc é $\leq \pm 0.8\%$.</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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4.3		Insulation test <i>Teste de isolamento</i>				P
Test date [DD/MM/YYYY] <i>Data de realização dos testes [DD/MM/AAAA]</i>		18/01/2024				—
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>		8000				—
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	MΩ	MΩ	Yes (description) <i>Sim (descrição)</i>	No(description) <i>Não</i>	
1	2.58	≥15.5	35060	/	No <i>Não</i>	P
*Supplementary information: Minimum requirement acc. to the standard is 40.0 MΩ*m ² . <i>*Informação suplementar: Os requisitos mínimos de acordo com a norma são 40.0 MΩ*m²</i>						

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4.15		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>		18/01/2024		—
Insulation resistance measured at [V _{DC}] <i>Valor da medição da resistência de isolamento [V_{DC}]</i>		1500		—
Solution temperature [°C] <i>Temperatura da solução [°C]</i>		22±2	20.5	—
Solution resistivity [Ω cm] <i>Resistencia da solução [Ω cm]</i>		≤3500	1392	—
Sample # <i>Amostra #</i>	Area <i>Área</i> [m ²]	Required <i>Valores-limite</i> [MΩ]	Measured <i>Medida</i> [MΩ]	Result* <i>Resultado*</i>
1	2.58	≥15.5	5180	P
*Supplementary information: Minimum requirement acc. to the standard is 40.0 MΩ*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

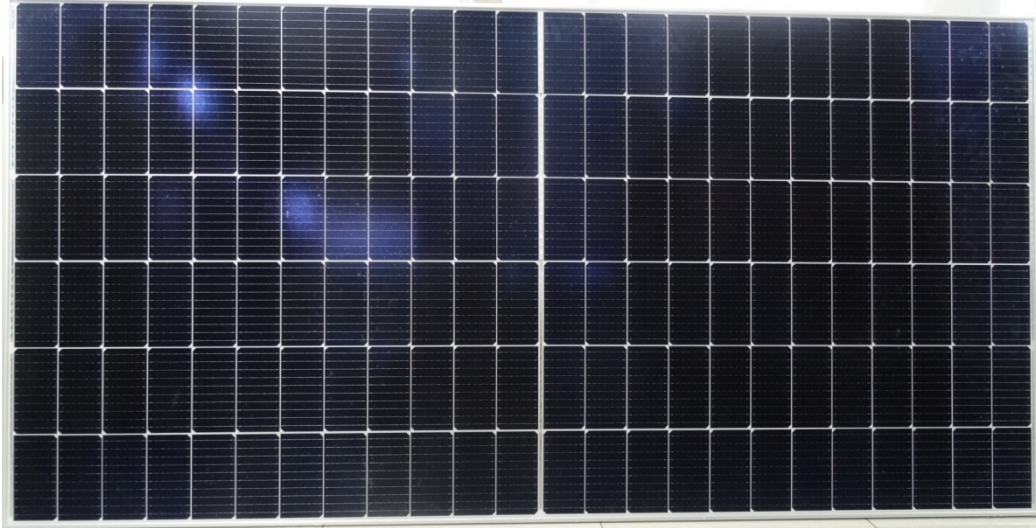


Fig. 1: Front view of module type ESPHSC545

Fig. 1: Vista frontal do tipo de módulo ESPHSC545

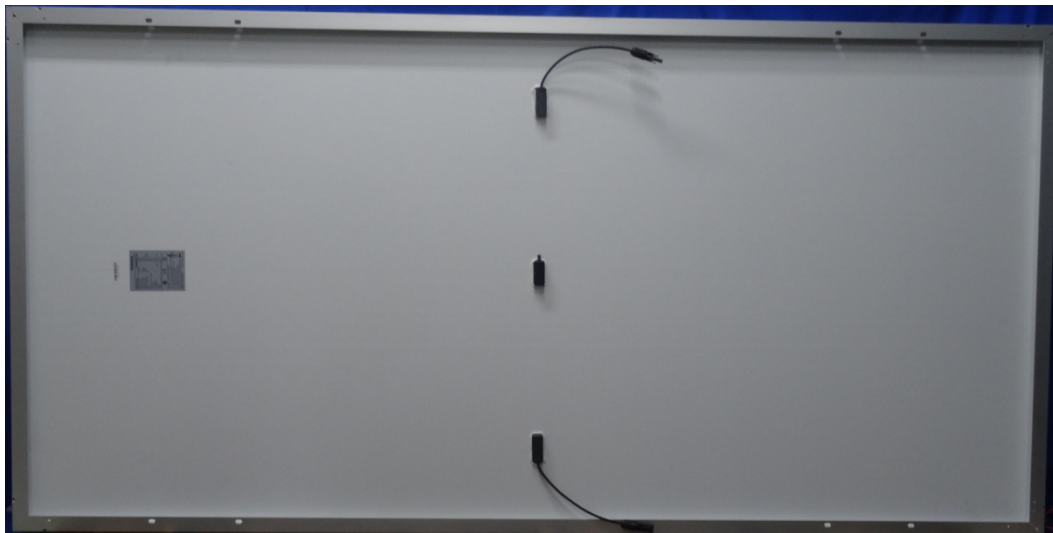


Fig. 2: Rear view of module type ESPHSC545

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	2278x1134x30 mm
Dimensões	
Efficiency	21,1% (211,0Wp/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	I:1000 W/m ² 25 °C
MADE IN CHINA Fabricado na China	
RoHS	
CE	
<small>WARNING-ELECTRICAL HAZARD. This unit produces electricity when exposed to sunlight. ATENÇÃO: RISCO ELÉTRICO Esta unidade produz eletricidade quando exposta a luz.</small>	

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]		16/01/2024
<i>Data de realização dos testes [DD/MM/AAAA]</i>		
Sample # <i>Amostra #</i>	Reverse current applied [A] <i>Corrente inversa aplicada [A]</i>	Attributes <i>Atributos</i>
1	Isc ± 5%	N/A
Supplementary information: none <i>Informação suplementar: nenhuma</i>		

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Energy efficiency class

Classe de eficiência energética

Sample # Amostra #	Module width Largura do módulo [mm]	Module length Comprimento do módulo [mm]	Module area área módulo [m ²]	Module power potência módulo [W]	Module efficiency eficiência do módulo [%]
1	1134	2278	2.58	545	21.1

Supplementary information: *see rating label in Photos of modules

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

Sample # Amostra #	Module type Tipo de módulo	Module efficiency eficiência do módulo [%]	Energy efficiency class Classe de eficiência energética
1	ESPHSC545	21.1	A

Supplementary information: none

Informação suplementar: nenhuma

Energy efficiency classes

Classe de Eficiência Energética

A \geq 20.0%

18.0% \leq B < 20.0%

16.0% \leq C < 18.0%

14.0% \leq D < 16.0%

E < 14.0%

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Figures números



Fig. 5 IV curve of module No.1 Serial number: AS22200108899

Fig. 5 IV curva de módulo No.1 Número de série: AS22200108899

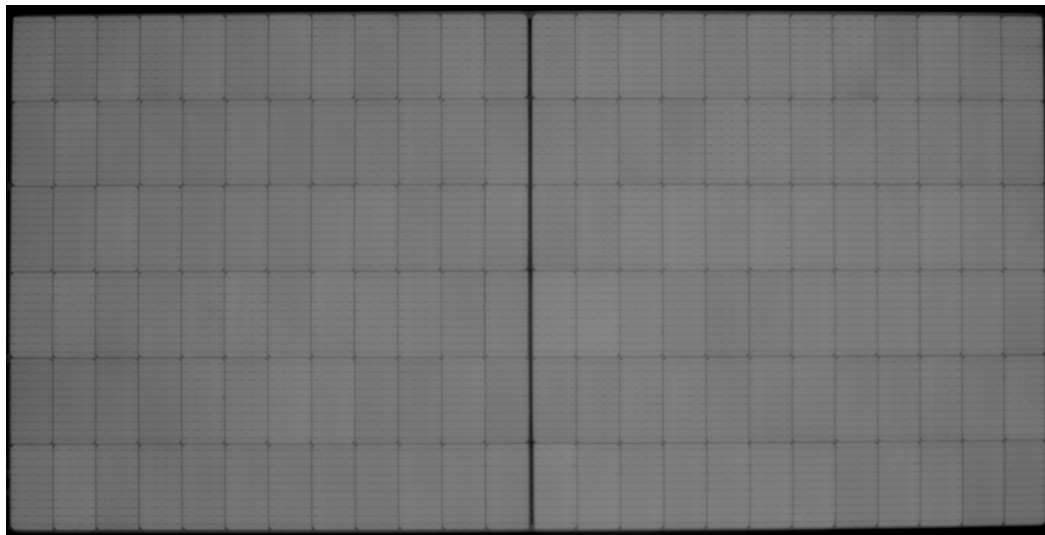


Fig. 6 EL photo of module No.2 Serial number: AS22200108899

Fig. 6 EL fotografia de módulo No.2 Número de série: AS22200108899

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List of measurement equipment Lista de equipamentos de medição

Clause Item	Measurement / testing Ensaio/ Procedimentos	Testing / measuring equipment / material used, (Equipment ID) Equipamento / material de teste / medição usado (ID do dispositivo)	Range used Escopo a ser usado	Last Calibration date Data da última calibração	Calibration due date Data de expiração da calibração
MQT 01	Visual Inspection Inspeção Visual	Digital illuminometer Fotômetro digital DZ-B-A1-0200	0~2000lux	2023-02-08	2024-02-07
		Band tape Fita métrica DZ-B-A1-0014	3.5m	2021-09-02	2024-09-01
MQT 19.1	Initial Stabilization Estabilização Inicial	Pulse solar simulator Simulador solar pulsado DZ-A-A2-0022	200~1200W/m ²	2023-09-21	2024-09-20
MQT 03	Insulation test Teste de isolamento Elétrico	Insulation tester Resistor de isolamento DZ-A-A1-0258	0~6kV, 1~50GΩ	2023-07-05	2024-07-04
		Withstand voltage tester Testador de tensão suportável DZ-A-A1-0238	0~10kV	2023-02-15	2024-02-14
MQT 02	Maximum Power Determination Determinação de Potência Máxima	Pulse solar simulator Simulador solar pulsado DZ-A-A2-0022	200~1200W/m ²	2023-09-21	2024-09-20
		Reference module Módulo de referência DZ-B-A2-0102	210mm Cell	2023-02-17	2024-02-16
MQT 15	Wet leakage current Resistência de Isolamento em Condições Úmidas	Insulation tester Resistor de isolamento DZ-A-A1-0258	0~6kV, 1~50GΩ	2023-07-05	2024-07-04
		Conductivity meter Medidor de condutividade DZ-B-A2-0055	0μS/cm~100mS/cm, 0.0~60.0 °C	2023-06-08	2024-06-07
/	EL image Imagens de eletroluminescência	EL camera Câmera de eletroluminescência DZ-A-A1-0274	/	2019-08-27	2029-08-26
		Power supply Fonte de alimentação cc DZ-A-A1-0009	160V 50A	2024-01-02	2025-01-01

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注 意 事 项

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National Center of Quality Inspection and Testing on Furniture

- 3、国家建筑材料及装饰装修材料质量检验检测中心

National Center of Quality Inspection and Testing on Building and Decoration Materials

- 4、国家智能电网分布式电源装备质量检验检测中心（上海）

National Center of Quality Inspection and Testing on Distributed Power Equipment in Smart Grid (Shanghai)

- 5、国家电器能效与安全质量检验检测中心

National Center of Quality Inspection and Testing on Energy Efficiency and Safety of Electrical Appliance

- 6、国家食品质量检验检测中心（上海）

National Center of Quality Inspection and Testing on Food Products (Shanghai)

- 7、国家保洁产品质量检验检测中心

National Center of Quality Inspection and Testing on Cosmetics and Cleaning Products

- 8、国家电光源质量检验检测中心（上海）

National Center of Inspection and Testing on Electric Light Source Quality (Shanghai)

- 9、国家灯具质量检验检测中心

China National Lighting Fitting Quality Inspection and Testing Centre (CLTC)

声 明

Statement

- 1、本质检机构保证检测的科学性、公正性和准确性，对检测的数据、结果负责，并对客户所提供的样品和技术资料保密。SQI pledges to conduct scientific, impartial and accurate testing, undertakes the liability of testing data and results, and protects the confidentiality of client(s)' sample(s) and technical information.

- 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。

Any objection to the test report of delivered samples shall be submitted to SQI within 15 days from the date of receiving the report; overdue submission will not be accepted.

- 3、对于非本质检机构实施抽样的检测报告，检测结果仅适用于客户提供的样品。

For the test report not sampled by SQI, the test results hereon refer only to the sample(s) provided by the client.

- 4、未经本质检机构同意，委托人不得擅自使用检测数据、结果进行不当宣传。

Without prior approval of SQI, any client shall not use the testing data and results for improper publicity.

- 5、本质检机构在资质认定证书确定的能力范围内，对社会出具具有证明作用数据、结果时，应当标注检验检测机构资质认定标志，并加盖检验检测专用章。在资质认定证书确定的能力范围外，出具的检验检测报告或者证书上不得标注检验检测机构资质认定标志，该数据、结果对社会不具有证明作用。

Within the capacity scopes of Qualification Accreditation Certificates, SQI shall issue data and results with proving effect to the society with the symbol of China Inspection Body and Laboratory Mandatory Approval (CMA) and the special seal for inspection and testing of SQI. Beyond the capacity scopes of Qualification Accreditation Certificates, SQI shall not issue test reports or certificates with the symbol of China Inspection Body and Laboratory Mandatory Approval (CMA), and the data and results thereon have no proving effect to the society.

上海市质量监督检验技术研究院所属单位一览表

Subordinate Units of Shanghai Institute of Quality Inspection and Technical Research (SQI)

- 1 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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- 2 上海时代之光照明电器检测有限公司(代码ZM)/ 国家电光源质量检验检测中心(上海)/ 国家灯具质量检验检测中心/ 国家轻工业灯具质量监督检测中心/ 上海市照明产品质量监督检验站
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- 3 机电产品质量检验所(代码JD)/上海市机电产品质量监督检验站
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- 4 轻工与化工产品质量检验所(代码QG、HG)/国家日用消费品质量检验检测中心/ 上海市轻工产品质量监督检验站/ 上海市化工产品质量监督检验站
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- 5 建材家居装饰装修质量检验所(代码JC)/ 国家家具质量检验检测中心/ 国家轻工业家具质量监督检测中心/ 国家轻工业建筑五金质量监督检测中心/ 国家建筑材料及装饰装修材料质量检验检测中心/ 上海市建筑材料及装饰装修材料质量监督检验站/ 上海市室内装饰装修质量监督检验站
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- 6 电子电器家用电器质量检验所(代码DZ、DQ)/ 国家电器能效与安全质量检验检测中心/ 国家智能电网分布式电源装备质量检验检测中心(上海)/ 上海市电子电器家用电器质量监督检验站
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