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中国认可  
国际互认  
检测  
TESTING  
CNAS L0128



W02391600028E

# 检测报告

## Test Report

*(Relatório de testes em laboratório)*



L5BYzX2z

**Name of Sample**

**550 W monocristalino**

*Nome da amostra*

**Type**

**ESPHSC550**

*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





# Shanghai Institute of Quality Inspection and Technical Research

## Test Report

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Name of Sample <i>Nome da amostra</i>	550 W monocristalino	Test Purpose <i>Finalidade do teste</i>	Entrusted Tests <i>Teste de delegação</i>
Type <i>Tipo de módulo</i>	ESPHSC550	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>	6004028	Entrusting/Sampling Date <i>Data De entrega</i>	2023.04.18
Reception Date <i>Data de recepção:</i>	2023.04.18	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 61215:2005 Crystalline silicon terrestrial photovoltaic (PV) modules -Design qualification and type approval		
Date of Testing <i>Data do teste</i>	2023.04.19 to 2023.04.24		
Conclusion <i>Conclusão</i>	<p>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 o página de resumo para detalhes.</i></p> <div style="text-align: center;">               (Test Report Badge)              Issued Date: 2023.04.23         </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 <i>Código postal</i>	318020	Tel. <i>O telefone</i>
			0086-576-84166969

Approved by: 陈苏声  
*Aprovado por:* 副主任

陈苏声

Checked by:  
*Revisor:*

李拉刚

Tested by:  
*O testador:*

马潇

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<b>Collection of The Test Results</b>					
<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>Juízos de valor por item único</i>	Remarks <i>Observações</i>
1	Visual inspection <i>Inspeção visual</i>	IEC 61215:2005 10.1	Page 5 <i>Página 5</i>	Complies <i>Elegível para</i>	/
2	Insulation test <i>Teste de isolamento de</i>	IEC 61215:2005 10.3	Page 6 <i>Página 6</i>	Complies <i>Elegível para</i>	/
3	Wet leakage current test <i>Teste de fuga de corrente molhada de</i>	IEC 61215:2005 10.15	Page 7 <i>Página 7</i>	Complies <i>Elegível para</i>	/
4	Performance at STC <i>O desempenho Na STC de</i>	IEC 61215:2005 10.6	Page 8 <i>Página 8</i>	Complies <i>Elegível para</i>	/
Supplementary information: none <i>Informação suplementar: nenhuma</i>					

SQI/KJ-JL/BG-396

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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.	ESPHSC550	ASA22190402036
2.	ESPHSC550	ASA22190402037
Supplementary information: Module size (mm): 2278*1134*30 <i>Informação suplementar: Tamanho do modulo (mm): 2278*1134*30</i>		
Abbreviations: <i>Abreviaturas:</i>		
Pmax– Maximum power <i>Pmax- Potência maxima</i>	STC – Standard Test Conditions <i>STC- Condições normais de ensaio</i>	Voc – Open Circuit Voltage <i>Voc –Circuito aberto de tensão</i>
Vmp – Maximum Power Voltage <i>Vmp –Potência maxima</i>	FF –Fill Factor <i>FF- Enches o Factor</i>	Imp – Maximum Power Current <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 (Passe isso)</i>		
- test object does not meet the requirement..... F (Fail) <i>- O teste object não conhece a requisição .....: F (Não passou)</i>		
-test case provides measured values..... — <i>- O caso de ensaio é um valor medido.....: —</i>		
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. <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>		

测试报告

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The test report has two versions, one in English, the other in Portuguese. The English one is in priority.

*O relatório de teste está disponível em duas versões, uma em inglês e outra em português. A grã - bretanha tem prioridade.*

Notices, Statement and Subordinate Units of SQI are the parts of this report.

*Notas, declarações e subordinados do SQI fazem parte deste relatório.*

The test report is in accordance with INMETRO scope PORTARIA 04/2011.

*Este relatório de teste é baseado no escopo do INMETRO PORTARIA 04/2011.*

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<b>10.1</b>	<b>Visual inspection</b> <b>INSPEÇÃO VISUAL</b>	<b>P</b>
Test date [DD/MM/YYYY] <i>Data de realização dos testes [DD/MM/AAAA]</i>	19/04/2023	—
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>	<b>P</b>
2.	No visual defects acc. to IEC 61215:2005 <i>Sem Defeitos visuais de acordo com IEC 61215:2005</i>	<b>P</b>
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>		19/04/2023				—
Maximum system voltage [V <sub>DC</sub> ] <i>Voltagem máxima do sistema [V<sub>DC</sub>]</i>		1500				—
High voltage applied [V <sub>DC</sub> ] <i>Alta tensão aplicada [V<sub>DC</sub>]</i>		4000				—
Insulation resistance measured at [V <sub>DC</sub> ] <i>Valor da medição da resistência de isolamento [V<sub>DC</sub>]</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 <sup>2</sup>	MΩ	MΩ	Yes (description) <i>Sim (descrição)</i>	No(description) <i>Não</i>	
1.	2.58	≥15.5	33600	/	No <i>Não</i>	P
2.	2.58	≥15.5	31710	/	No <i>Não</i>	P
*Supplementary information: Minimum requirement acc. to the standard is 40.0 MΩ*m <sup>2</sup> . <i>*Informação suplementar: Os requisitos mínimos de acordo com a norma são 40.0 MΩ*m<sup>2</sup></i>						

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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>	19/04/2023		—	
Insulation resistance measured at [ $V_{DC}$ ] <i>Valor da medição da resistência de isolamento [<math>V_{DC}</math>]</i>	1500		—	
Solution temperature [ $^{\circ}C$ ] <i>Temperatura da solução [<math>^{\circ}C</math>]</i>	22±3	21.5	—	
Solution resistivity [ $\Omega$ cm] <i>Resistencia da solução [<math>\Omega</math> cm]</i>	≤3500	1161	—	
Sample # <i>Amostra #</i>	Area <i>Área</i> [m <sup>2</sup> ]	Required <i>Valores-limite</i> [M $\Omega$ ]	Measured <i>Medida</i> [M $\Omega$ ]	Result* <i>Resultado*</i>
1.	2.58	≥15.5	6420	P
2.	2.58	≥15.5	6277	P
*Supplementary information: Minimum requirement acc. to the standard is 40.0 M $\Omega$ *m <sup>2</sup> . <i>*Informação suplementar: Os requisitos mínimos de acordo com a norma são 40.0 M<math>\Omega</math>*m<sup>2</sup></i>				



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10.6		Performance at STC <i>O DESEMPENHO NA STC</i>					P <sup>1</sup>
Test date [DD/MM/YYYY] <i>Data de realização dos testes [DD/MM/AAAA]</i>		19/04/2023					—
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 <sup>2</sup> ] <i>Irradiação [W/m<sup>2</sup>]</i>		1000±5					—
Sample # <i>Amostra #</i>	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmax [W]	FF [%]	
1.	49.81	41.58	13.84	13.25	550.93	79.92	
2.	49.82	41.58	13.84	13.25	551.07	79.90	
<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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## Photos of modules

### *Fotos dos módulos*

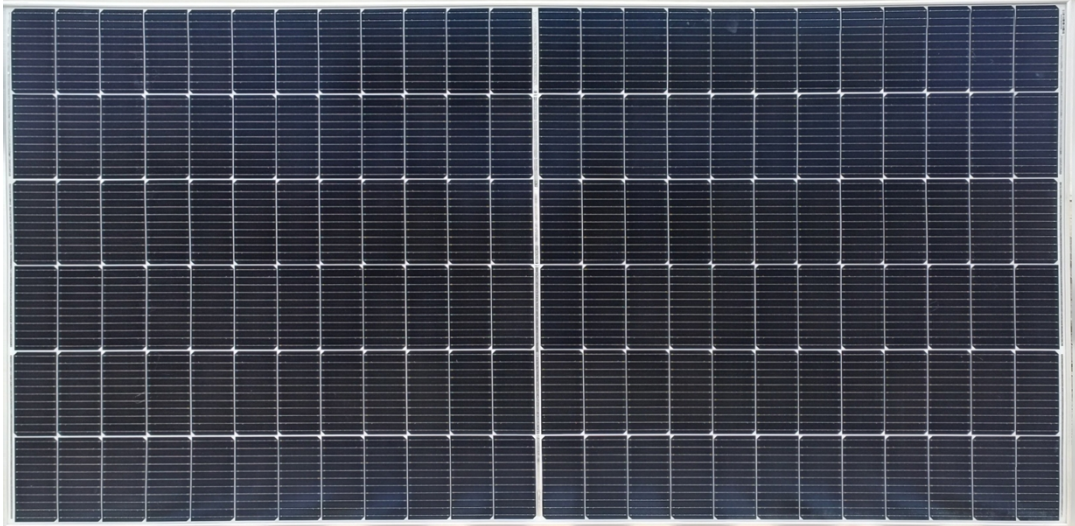


Fig. 1: Front view of module type ESPHSC550

*Fig. 1: Vista frontal do tipo de módulo ESPHSC550*

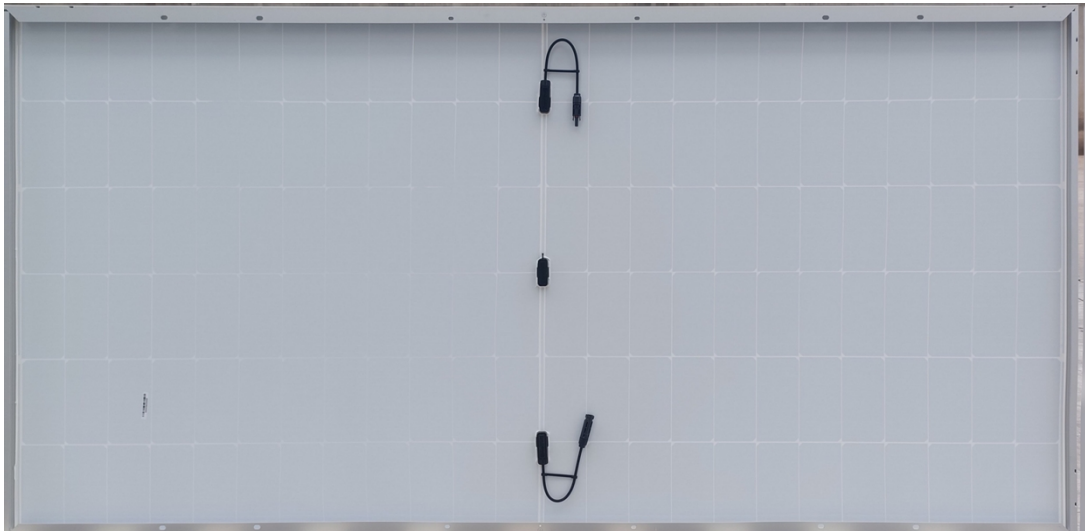


Fig. 2: Rear view of module type ESPHSC550

*Fig. 2: Vista da parte traseira do tipo de módulo ESPHSC550*

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## Photos of modules

### Fotos dos módulos



Fig. 3: View of junction box of module type ESPHSC550

Fig. 3: Vista detalhada da caixa de junção do tipo de módulo ESPHSC550

<b>ERA<sup>®</sup></b> SOLAR	
Model	550 W monocristalino
Modelo	
Code	ESPHSC550
Código	
Maximum power	550 W
Potência Máxima	
Voltage at Pmax(Vmp)	41.95 V
Tensão em Pmax(Vmp)	
Current at Pmax(Imp)	13.12 A
Corrente em Pmax(Imp)	
Short-circuit current(Isc)	13.98 A
Corrente de curto circuito (Isc)	
Open-circuit voltage(Voc)	49.80 V
Tensão de circuito aberto (Voc)	
Dimensions	2278x1134x30 mm
Dimensões	
Efficiency	21,3% (212,8 Wp/m <sup>2</sup> )
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 <sup>2</sup> 25 °C
MADE IN CHINA Fabricado na China	
<b>RoHS</b>	
<b>CE</b>	
 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 ESPHSC550

Fig.4: Vista detalhada da placa de características do tipo de módulo ESPHSC550

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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>		19/04/2023
Sample # <i>Amostra #</i>	Reverse current applied [A] <i>Corrente inversa aplicada [A]</i>	Attributes <i>Atributos</i>
1.	Isc $\pm$ 5%	N/A
2.	Isc $\pm$ 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 <sup>2</sup> ]	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	2278	2.58	550	21.3	A
2.	1134	2278	2.58	550	21.3	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%

# Test Report

## Photos of modules *Fotos dos módulos*

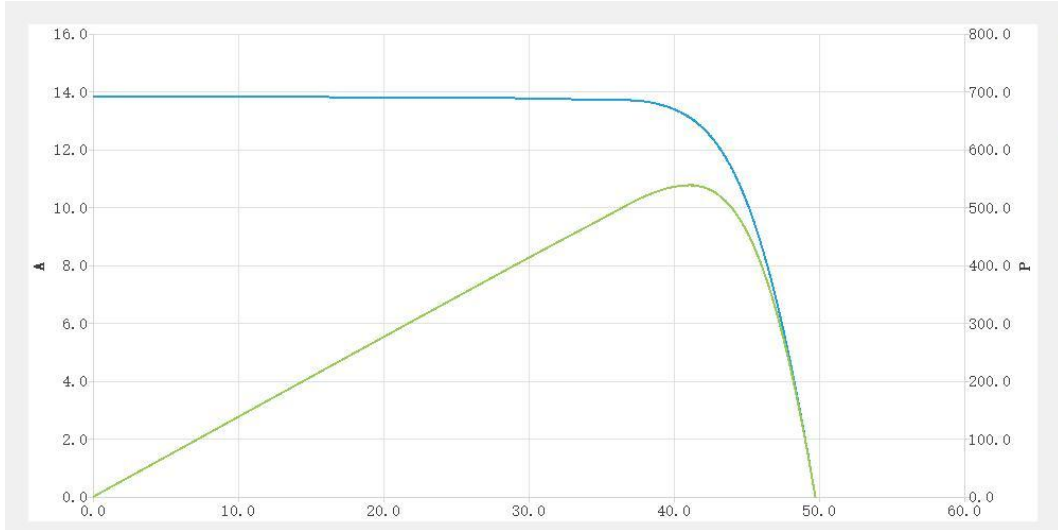


Fig. 5 IV curve of module No.1 Serial number: ASA22190402036

*Fig. 5 IV curva de módulo No.1 Número de série: ASA22190402036*

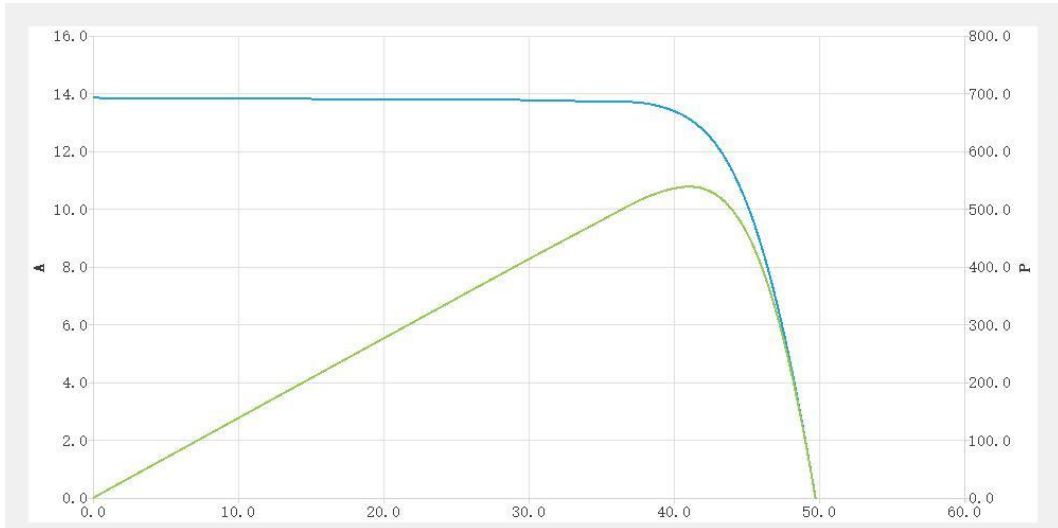


Fig. 6 IV curve of module No.2 Serial number: ASA22190402037

*Fig. 6 IV curva de módulo No.2 Número de série: ASA22190402037*

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## EL images

### *Imagens de electroluminescência*

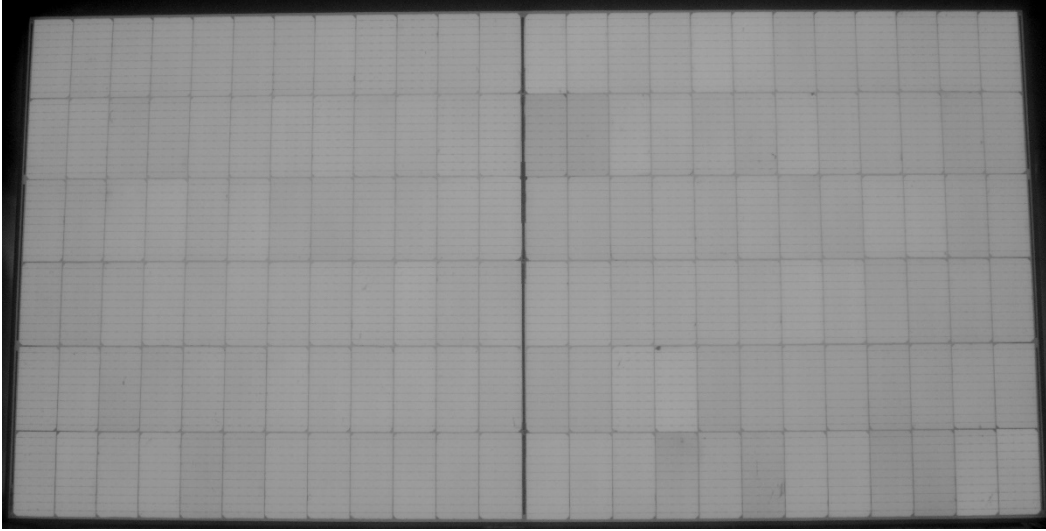


Fig. 7 EL photo of module No.1 Serial number: ASA22190402036

*Fig. 7 EL fotografia de módulo No.1 Número de série: ASA22190402036*

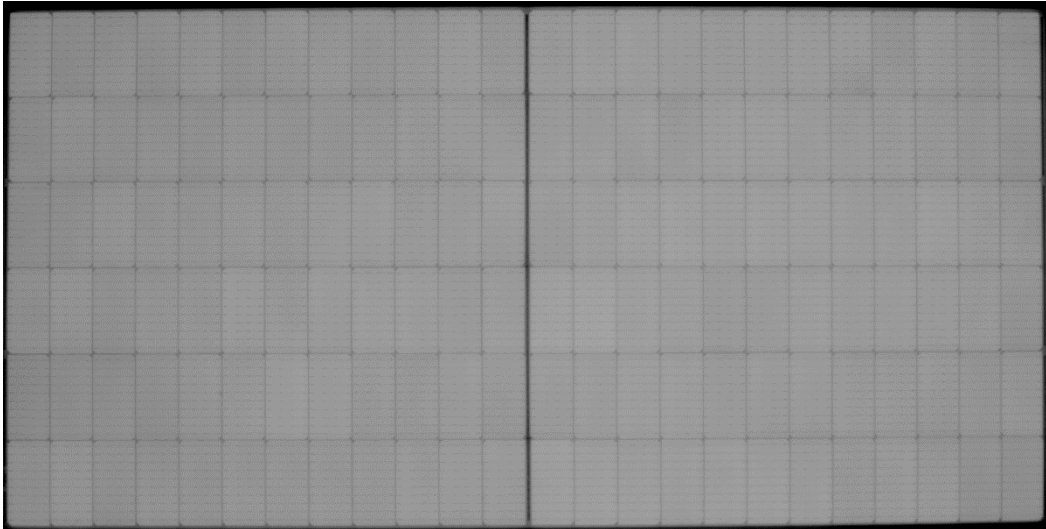


Fig. 8 EL photo of module No.2 Serial number: ASA22190402037

*Fig. 8 EL fotografia de módulo No.2 Número de série: ASA22190402037*

SHANGHAI INSTITUTE OF QUALITY INSPECTION AND TECHNICAL RESEARCH

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## List of measurement equipment *Lista de equipamentos de medição*

Clause Item	Measurement / testing <i>Ensaios/ Procedimentos</i>	Testing / measuring equipment / material used, (Equipment ID)  <i>Equipamento / material de teste / medição usado (ID do dispositivo)</i>	Range used  <i>Escopo a ser usado</i>	Last Calibration date  <i>Data da última calibração</i>	Calibration due date  <i>Data de expiração da calibração</i>
10.1	Visual Inspection	Digital illuminometer <i>Fotômetro digital</i> DZ-B-A1-0200	0~2000lux	2023-02-08	2024-02-07
	<i>Inspeção Visual</i>	Band tape <i>Fita métrica</i> DZ-B-A1-0014	3.5m	2021-09-02	2024-09-01
10.3	Insulation test  <i>Teste de isolamento Elétrico</i>	Insulation tester <i>Resistor de isolamento</i> DZ-A-A1-0258	0~6kV, 1~50GΩ	2022-07-06	2023-07-05
10.6	Performance at STC	Pulse solar simulator <i>Simulador solar pulsado</i> DZ-A-A2-0140	200~1200W/m <sup>2</sup>	2022-09-07	2023-09-06
	<i>O desempenho Na STC de</i>	Reference module <i>Módulo de referência</i> DZ-B-A2-0109	182mm	2022-07-05	2023-07-04
10.15	Wet leakage current	Insulation tester <i>Resistor de isolamento</i> DZ-A-A1-0258	0~6kV, 1~50GΩ	2022-07-06	2023-07-05
	<i>Resistência de Isolamento em Condições Úmidas</i>	Conductivity meter <i>Medidor de condutividade</i> DZ-B-A2-0055	0μS/cm~100mS/ cm, 0.0~60.0 °C	2022-07-13	2023-07-12
/	EL image	EL camera <i>Câmera de eletroluminescência</i> DZ-A-A1-0274	/	2019-08-27	2029-08-26
	<i>Imagens de eletroluminescên cia</i>	Power supply <i>Fonte de alimentação cc</i> DZ-B-A2-0111	150V 20A	2022-09-20	2023-09-19

The below is blank.

*Tem calma com o teste.*



## 注 意 事 项

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National Center of Quality Inspection and Testing on Consumer Goods

- 2、国家家具质量检验检测中心

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

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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  
地址:上海市徐汇区苍梧路381号 邮编: 200233  
电话: 021-54263362 传真: 021-54265730  
Address: No.381, Cangwu Rd., Xuhui District, Shanghai Post: 200233  
Tel: 021-54263362 Fax: 021-54265730  
地址:上海市奉贤区平庄西路3086号(日化产品) 邮编: 201499  
电话: 021-57493107 传真: 021-57493162  
Address: No.3086, West Pingzhuang Rd., Fengxian District, Shanghai (Daily Chemical Products)  
Post: 201499 Tel: 021-57493107  
E-mail: shihuas@sqi.org.cn
  
- 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  
Shanghai Alpha Lighting Equipment Testing Ltd. (SQI\_ZM) / National Center of Inspection and Testing on Electric Light Source Quality (Shanghai) / China National Lighting Fitting Quality Inspection and Testing Centre (CLTC) / National Center for Quality Supervision and Inspection of Light Industrial Luminaries / Shanghai Municipal Station of Quality Supervision and Test on Lighting Products  
地址: 上海市闵行区江月路900号2号楼 邮编: 201114  
电话: 021-54336162, 54336173, 54336181, 54336227 传真: 021-54337200  
Address: 2<sup>nd</sup> Building, No.900, Jiangyue Rd., Minhang District, Shanghai Post: 201114  
Tel: 021-54336162, 54336173, 54336181, 54336227 Fax: 021-54337200  
E-mail: salt@sqi.org.cn, salt@saltnet.com.cn, sdzg@sqi.org.cn
  
- 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  
Institute of Quality Inspection of Mechanical and Electronic Products(SQI\_JD)/ Shanghai Municipal Station of Quality Supervision and Inspection of Mechanical and Electronic Products  
地址: 上海市静安区万荣路918号 邮编: 200072  
电话: 021-56035307, 56652534 传真: 021-56652624  
Address: No.918, Wanrong Rd., Jing' an District, Shanghai Post: 200072  
Tel: 021-56035307, 56652534 Fax: 021-56652624  
E-mail: jds@sqi.org.cn
  
- 4 轻工与化工产品产品质量检验所(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  
Institute of Quality Inspection of Light Industrial Products and Chemical Products (SQI\_QG/HG) / National Center of Quality Inspection and Testing on Consumer Goods / Shanghai Municipal Station of Quality Supervision and Inspection of Light Industrial Products/ Shanghai Municipal Station of Quality Supervision and Inspection of Chemical Products  
地址: 上海市闵行区江月路900号3号楼 邮编: 201114  
电话: 021-54336172, 54336175 传真: 021-54336175  
Address: 3rd Building, No.900, Jiangyue Rd., Minhang District, Shanghai Post: 201114  
Tel: 021-54336172, 54336175 Fax: 021-54336175  
地址: 上海市奉贤区平庄西路3086号 邮编: 201499  
电话: 021-54336172, 54336175 传真: 021-54336175  
Address: No.3086, West Pingzhuang Rd., Fengxian District, Shanghai Post: 201499  
Tel: 021-54336172, 54336175 Fax: 021-54336175  
E-mail: qgs@sqi.org.cn, qinggong@sqi.org.cn
  
- 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  
Institute of Quality Inspection of Building Materials and Decoration Materials (SQI\_JC) / National Center of Quality Inspection and Testing on Furniture / National Center for Quality Supervision and Inspection of Light Industrial Furniture / National Center for Quality Supervision and Inspection of Light Industrial Building Hardware / National Center of Quality Inspection and Testing on Building and Decoration Materials / Shanghai Municipal Station of Quality Supervision and Inspection of Building Materials and Decoration Materials / Shanghai Municipal Station of Quality Supervision and Inspection of Interior Decoration  
地址: 上海市闵行区江月路900号5号楼 邮编: 201114  
电话: 021-54336170, 54336225 传真: 021-54336170  
Address: 5th Building, No.900, Jiangyue Rd., Minhang District, Shanghai Post: 201114  
Tel: 021-54336170, 54336225 Fax: 021-54336170  
地址: 上海市奉贤区平庄西路3086号 邮编: 201499  
电话: 021-57493115 传真: 021-57493162  
Address: No.3086, West Pingzhuang Rd., Fengxian District, Shanghai Post: 201499  
Tel: 021-57493115 Fax: 021-57493162  
E-mail: jcs@sqi.com.cn, jiancai@sqi.org.cn
  
- 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  
Institute of Quality Inspection of Electronics and Household Appliances (SQI\_DZ/DQ) / National Center of Quality Inspection and Testing on Energy Efficiency and Safety of Electrical Appliance/ National Center of Quality Inspection and Testing on Distributed Power Equipment in Smart Grid (Shanghai) / Shanghai Municipal Station of Quality Supervision and Inspection of Electronics and Household Appliances  
地址: 上海市闵行区江月路900号4号楼 邮编: 201114  
电话: 021-54336322; 64336605 传真: 021-64313348  
E-mail: dzs@sqi.org.cn  
Address: 4th Building, No.900, Jiangyue Rd., Minhang District, Shanghai Post: 201114  
Tel: 021-54336322, 64336605 Fax: 021-64313348  
E-mail: dzs@sqi.org.cn  
地址: 上海市徐汇区苍梧路381号 邮编: 200233  
电话: 021-54263097, 64336605 传真: 021-64850806  
Address: No.381, Cangwu Rd., Xuhui District, Shanghai Post: 200233  
Tel: 021-54263097, 64336605 Fax: 021-64850806  
E-mail: dqs@sqi.org.cn
  
- 7 计量检测所(代码JL)  
Institute of Metrology Inspection(SQI\_JL)  
地址: 上海市闵行区江月路900号5号楼 邮编: 201114  
电话: 021-54336149, 54336148 传真: 021-62892960  
Address: 5th Building, No.900, Jiangyue Rd., Minhang District, Shanghai Post: 201114  
Tel: 021-54336149, 54336148  
地址: 上海市徐汇区永嘉路627号 邮编: 200031  
电话: 021-64372125 传真: 021-64372135  
Address: No.627 Yongjia Rd., Xuhui District, Shanghai Post: 201114  
Tel: 021-64372125 Fax: 021-64372135  
E-mail: jls@sqi.org.cn
  
- 8 纤维检验所(代码XW)/ 国家日用消费品质量检验检测中心 / 上海市纺织纤维质量监督检验站  
Institute of Fiber Inspection (SQI\_XW) / National Center of Quality Inspection and Testing on Consumer Goods / Shanghai Municipal Station of Quality Supervision and Inspection of Textile and Fiber  
地址: 上海市长乐路1228号 邮编: 200040  
电话: 021-62495465 传真: 021-62481025  
Address: No.1228, Changle Rd., Shanghai Post: 200040  
Tel: 021-62495465 Fax: 021-62481025  
E-mail: xws@sqi.org.cn