



中国认可
国际互认
检测
TESTING
CNAS L0128



W02214600136E

检测报告

Test Report

(Relatório de testes em laboratório)



L3BpKYdt

Name of Sample

PV module (550 W monocristalino)

Gegenstand der Prüfung

Type

ESPHSC550

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



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| | | | |
|--|---|---|------------------------|
| Name of Sample <i>Gegenstand der Prüfung</i> | PV module (550 W monocristalino) | Test Purpose <i>Finalidade do teste</i> | Entrusted Tests |
| Type <i>Tipo de módulo</i> | ESPHSC550 | 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> | 6004136 | 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

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>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> | | | | | |

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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 | AS221804066754 | | | | | | | | | | | | | | | |
| 2. | ESPHSC550 | AS221804066755 | | | | | | | | | | | | | | | |
| <p>Abbreviations: <i>Abreviaturas:</i></p> <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 máxima</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 máxima</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 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> | |
| 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> | | | | | | | | | | | | | | | | |
| <p>Possible test case verdicts: <i>Caso verdicts:</i></p> <ul style="list-style-type: none"> - 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> | | | | | | | | | | | | | | | | | |
| <p>Supplementary information: none <i>Informação suplementar: nenhuma</i></p> | | | | | | | | | | | | | | | | | |

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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 | >50000 | / | No | P |
| 2. | 2.58 | ≥ 15.5 | >50000 | / | 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. | 49.93 | 41.65 | 13.80 | 13.23 | 551.195 | 80.02 | |
| 2. | 49.92 | 41.37 | 13.81 | 13.32 | 551.049 | 79.94 | |
| <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 [°C] <i>Temperatura da solução [°C]</i> | 22±3 | 21.8 | — | |
| Solution resistivity [Ω cm] <i>Resistencia da solução [Ω cm]</i> | ≤3500 | 1956 | — | |
| 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 | 3269 | P |
| 2. | 2.58 | ≥15.5 | 4117 | 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

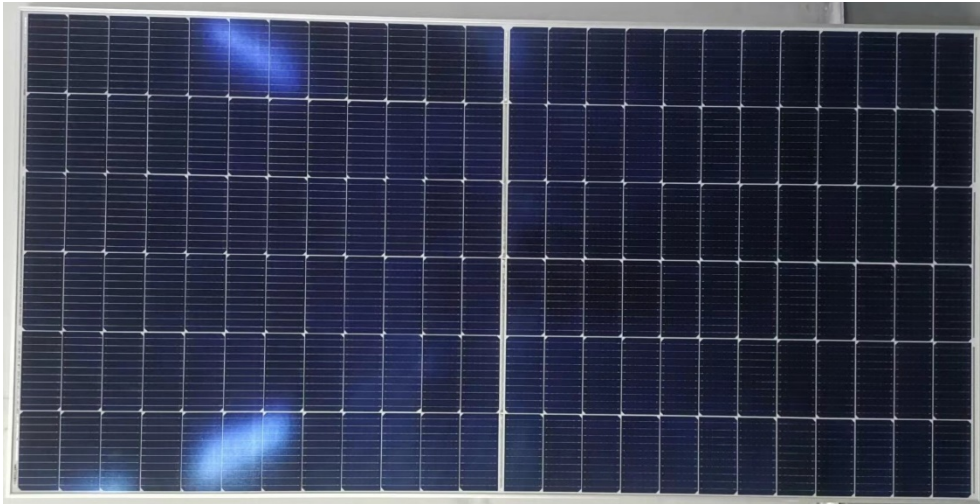


Fig. 1: Front view of module type ESPHSC550

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

| ERA [®] 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 | 2279x1134x35 mm |
| Dimensões | |
| Efficiency | 21,3% (212,8 Wp/m ²) |
| 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 | |
| RoHS | |
| CE | |
| WARNING-ELECTRICAL HAZARD This unit produces electricity when exposed to sunlight. ATENÇÃO- RISCO ELÉTRICO Esta 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> | | 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> [%] |
|------------------------------|--|---|--|---|---|
| 1. | 1134 | 2279 | 2.58 | 550 | 21.3 |
| 2. | 1134 | 2279 | 2.58 | 550 | 21.3 |

*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. | ESPHSC550 | 21.3 | A |
| 2. | ESPHSC550 | 21.3 | 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%

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Photos of modules

Fotos dos módulos

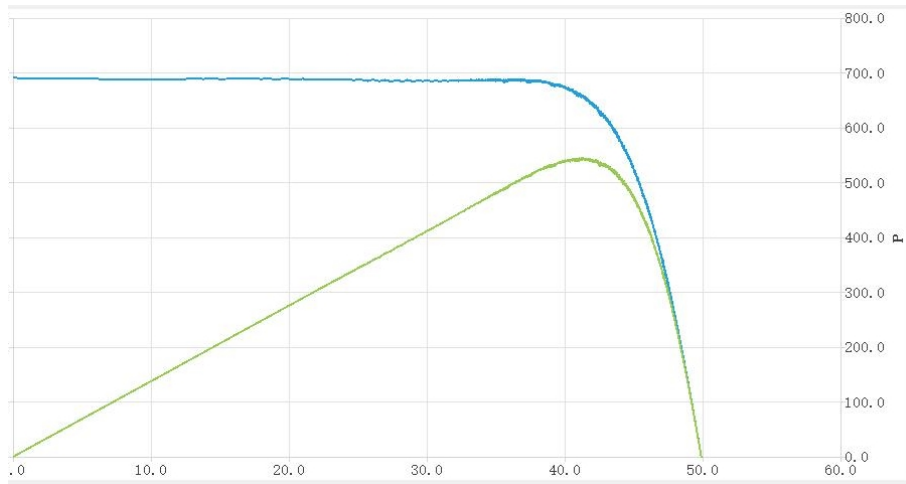


Fig. 5 IV curve of module No.1 Serial number: AS221804066754

Fig. 5 IV curva de módulo No.1 Número de série: AS221804066754

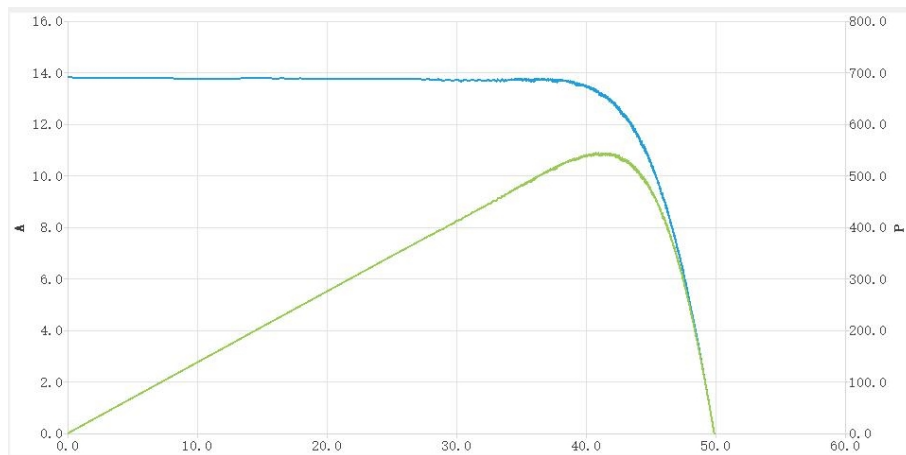


Fig. 6 IV curve of module No.2 Serial number: AS221804066755

Fig. 6 IV curva de módulo No.2 Número de série: AS221804066755

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EL images

Imagens de electroluminescência

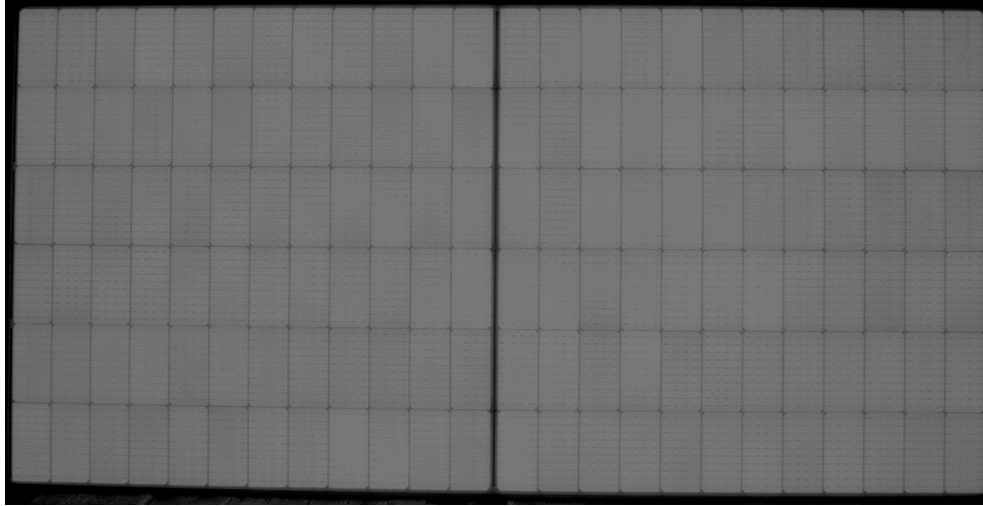


Fig. 7 EL photo of module No.1 Serial number: AS221804066754

Fig. 7 EL fotografia de módulo No.1 Número de série: AS221804066754

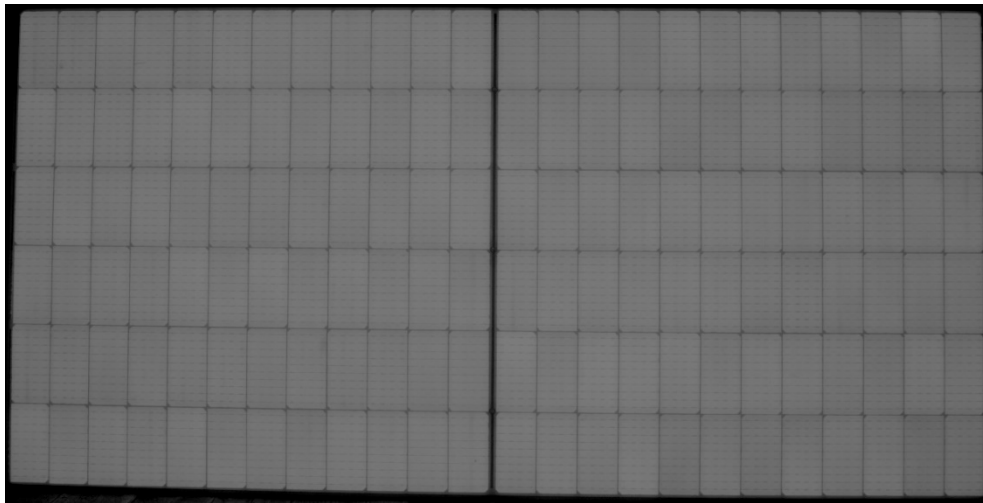


Fig. 8 EL photo of module No.2 Serial number: AS221804066755

Fig. 8 EL fotografia de módulo No.2 Número de série: AS221804066755

上海质量检验技术研究院

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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-A2-0140 | 200~1200W/m ² | 2021-07-28 | 2022-07-27 |
| | | 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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注 意 事 项

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National Center of Quality Inspection and Testing on Furniture

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

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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

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

- 食品化妆品质量检验所(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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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
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