



中国认可
国际互认
检测
TESTING
CNAS L0128



W02214600472E

检测报告

Test Report

(Relatório de testes em laboratório)



5VoF2nfA

Name of Sample

450 W monocristalino bifacial

Nome da amostra

Type

ESPHSC450W

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>	450 W monocristalino bifacial	Test Purpose <i>Finalidade do teste</i>	Entrusted Tests
Type <i>Tipo de módulo</i>	ESPHSC450W	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>	6012472	Entrusting/Sampling Date <i>Data De entrega</i>	2022.12.26
Reception Date <i>Data de recepção:</i>	2022.12.26	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>	AS14181200001, AS14181200002
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>	2022.12.26 to 2023.01.04		
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 a página de resumo para detalhes.</i></p> <div style="text-align: center;">  (Test Report Badge) Issued Date: 2023.01.04 </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:

李拉丽

Tested by:
O testador:

马潇

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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 <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>					

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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.	ESPHSC450	AS14181200001
2.	ESPHSC450	AS14181200002
Supplementary information: Module size (mm): 2096*1039*30 <i>Informação suplementar: Tamanho do modulo (mm): 2096*1039*30</i>		
Abbreviations: <i>Abreviaturas:</i>		
Pmax– Maximum power <i>Pmax- Potência maxima</i> Vmp – Maximum Power Voltage <i>Vmp –Potência maxima</i> Isc – Short Circuit Current	STC – Standard Test Conditions <i>STC- Condições normais de ensaio</i> FF –Fill Factor <i>FF- Enches o Factor</i> <i>Isc- Curto circuito atual</i>	Voc – Open Circuit Voltage <i>Voc –Circuito aberto de tensão</i> Imp – Maximum Power Current <i>Imp- Potência máxima actual</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>		

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

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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.

The test items are not accredited; they shall only be used for technical research, education or internal quality control purpose.

O projeto de teste não foi aprovado; Eles só podem ser usados para pesquisa técnica, educação ou controle de qualidade interno.

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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| 10.1 | Visual inspection
<i>INSPEÇÃO VISUAL</i> | P |
|---|--|---|
| Test date [DD/MM/YYYY]
<i>Data de realização dos testes [DD/MM/AAAA]</i> | 28/12/2022 | — |
| 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> | | 28/12/2022 | | | | — |
| 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 | MΩ | MΩ | Yes (description)
<i>Sim (descrição)</i> | No(description)
<i>Não</i> | |
| 1. | 2.18 | ≥18.4 | 37420 | / | No
<i>Não</i> | P |
| 2. | 2.18 | ≥18.4 | 36110 | / | 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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| 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> | | 28/12/2022 | | — |
| 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 | 20.5 | — |
| Solution resistivity [Ω cm]
<i>Resistencia da solução [Ω cm]</i> | | ≤3500 | 753 | — |
| 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. | 2.18 | ≥18.4 | 5832 | P |
| 2. | 2.18 | ≥18.4 | 5660 | 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> | | 28/12/2022 | | | | | — |
| 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±5 | | | | | — |
| Sample #
<i>Amostra #</i> | Voc [V] | Vmp [V] | Isc [A] | Imp [A] | Pmax [W] | FF [%] | |
| 1. | 50.16 | 42.09 | 11.32 | 10.73 | 451.58 | 79.57 | |
| 2. | 50.17 | 42.12 | 11.33 | 10.74 | 452.43 | 79.57 | |
| <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

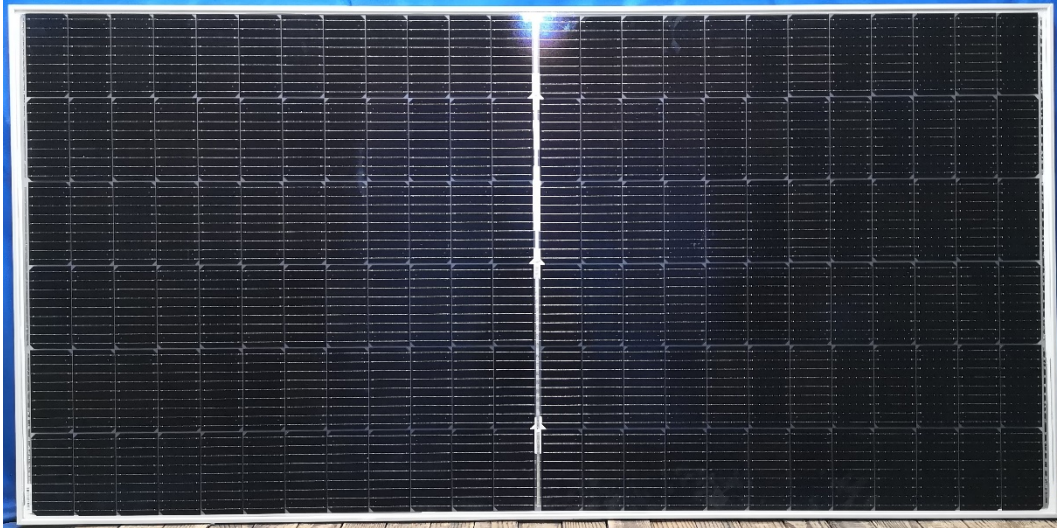


Fig. 1: Front view of module type ESPHSC450

Fig. 1: Vista frontal do tipo de módulo ESPHSC450

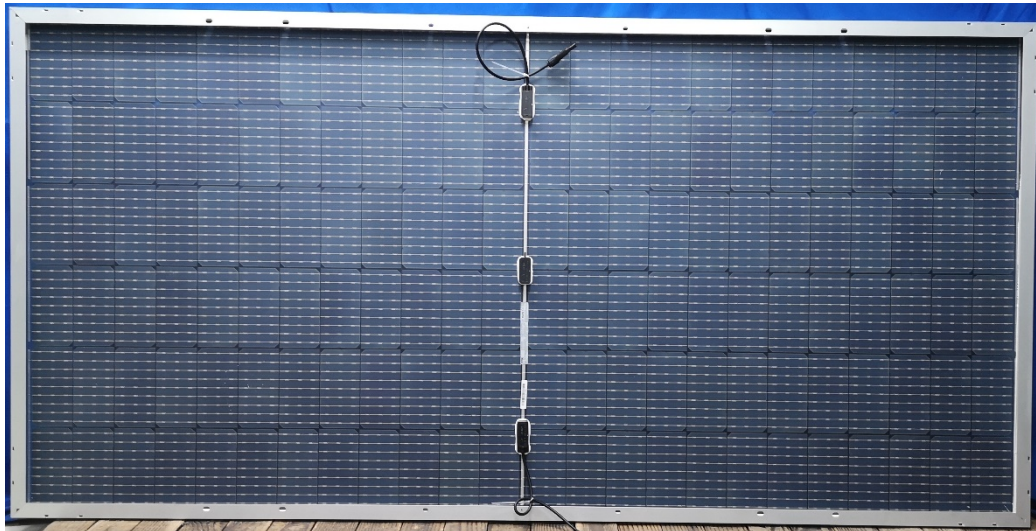


Fig. 2: Rear view of module type ESPHSC450

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

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Photos of modules

Fotos dos módulos

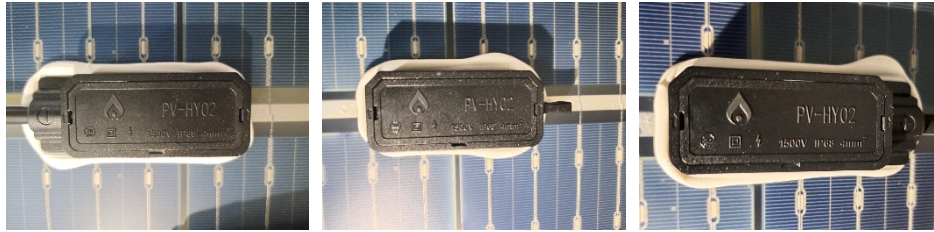


Fig. 3: View of junction box of module type ESPHSC450

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

| | | | | | |
|--|----------------------------------|---------------|--|---------------------------------|--|
| ERA ^{SOLAR}
Modelo 450 W monocristalino bifacial
Código ESPHSC450
Potência Máxima 450 W | Tensão em Pmax(Vmp) | 41.5 V | Eficiência | 20,7% (206,6Wp/m ²) |
RoHS CE
ATENÇÃO: RISCO ELÉTRICO
Não conectar ou desconectar o sistema quando energizado.
Isso pode acarretar choque elétrico ou situações perigosas.
Fabricado na China |
| | Corrente em Pmax(Imp) | 10,85 A | Maxima tensão do sistema | 1500 V | |
| | Corrente de curto circuito (Isc) | 11,5 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 | |
| Dimensões | 2096x1039x30 mm | | | | |

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

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

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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> | | 28/12/2022 |
| 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. | 1039 | 2096 | 2.18 | 450 | 20.7 | A |
| 2. | 1039 | 2096 | 2.18 | 450 | 20.7 | 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*

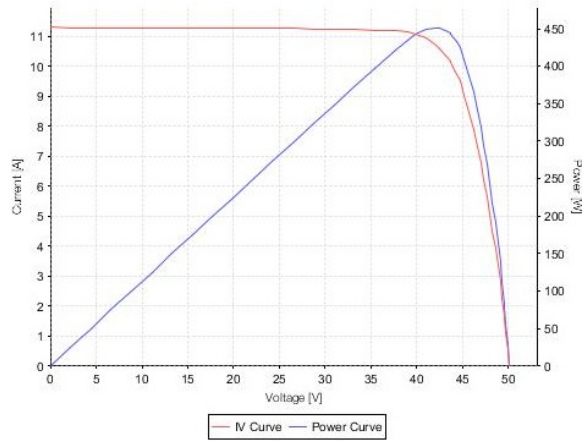


Fig. 5 IV curve of module No.1 Serial number: AS14181200001

Fig. 5 IV curva de módulo No.1 Número de série: AS14181200001

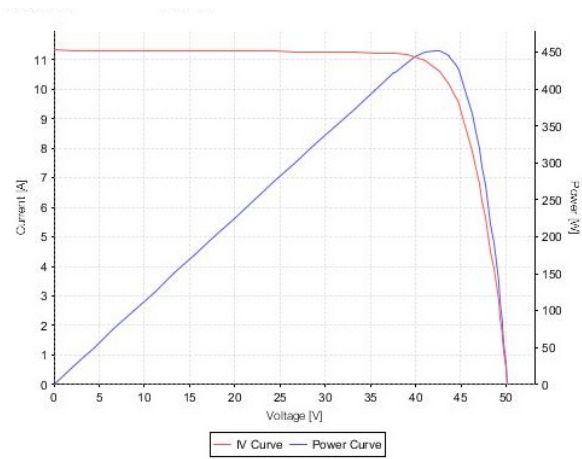


Fig. 6 IV curve of module No.2 Serial number: AS14181200002

Fig. 6 IV curva de módulo No.2 Número de série: AS14181200002

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EL images

Imagens de electroluminescência

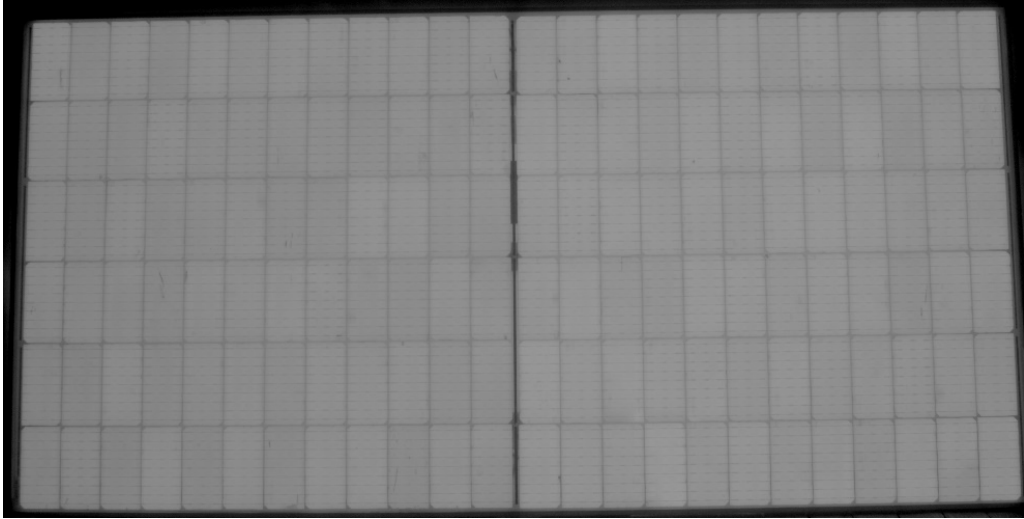


Fig. 7 EL photo of module No.1 Serial number: AS14181200001

Fig. 7 EL fotografia de módulo No.1 Número de série: AS14181200001

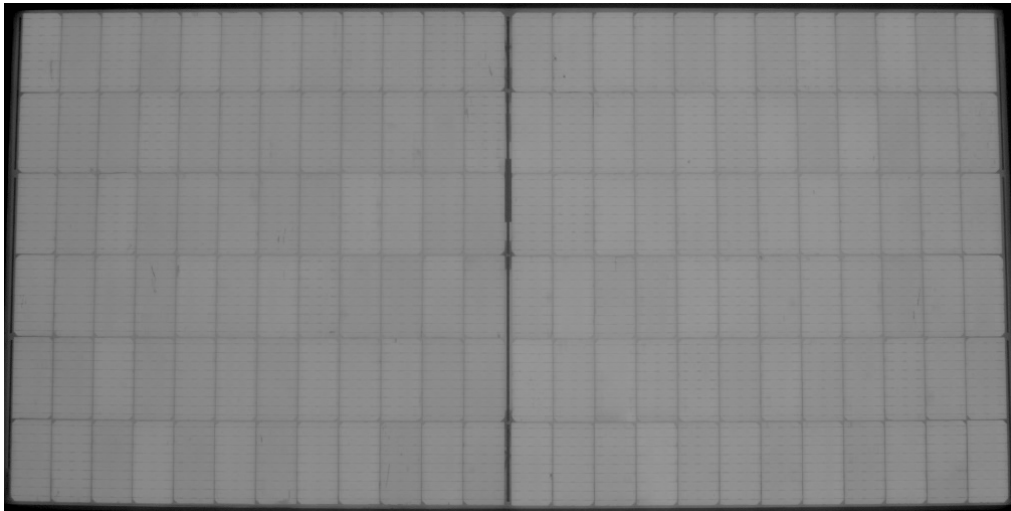


Fig. 8 EL photo of module No.2 Serial number: AS14181200002

Fig. 8 EL fotografia de módulo No.2 Número de série: AS14181200002

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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

<i>Inspeção Visual</i> | Digital illuminometer
<i>Fotômetro digital</i>
DZ-B-A1-0200 | 0~2000lux | 2022-02-25 | 2023-02-24 |
| | | 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 | 2022-05-17 | 2023-05-16 |
| 10.6 | Performance at
STC

<i>O desempenho
Na STC de</i> | Pulse solar simulator
<i>Simulador solar
pulsado</i>
DZ-A-A2-0140 | 200~1200W/m ² | 2022-09-07 | 2023-09-06 |
| | | Reference module
<i>Módulo de referência</i>
DZ-B-A2-0100 | 182mm | 2022-03-04 | 2023-03-03 |
| 10.15 | Wet leakage
current

<i>Resistência de
Isolamento em
Condições
Úmidas</i> | Insulation tester
<i>Resistor de isolamento</i>
DZ-A-A1-0258 | 0~6kV,
1~50GΩ | 2022-05-17 | 2023-05-16 |
| | | Conductivity meter

<i>Medidor de
condutividade</i>
DZ-B-A2-0055 | 0μS/cm~100mS/
cm, 0.0~60.0 °C | 2022-05-17 | 2023-05-16 |
| / | EL image

<i>Imagens de
eletroluminescên</i> | EL camera
<i>Câmera de
eletroluminescência</i>
DZ-A-A1-0274 | / | 2019-08-27 | 2029-08-26 |



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| | | | | | |
|--|------------|--|----------|------------|------------|
| | <i>cia</i> | Power supply
<i>Fonte de alimentação</i>
<i>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

Notices

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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

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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