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检测  
TESTING  
CNAS L0128



W02214600119E

# 检测报告

## Test Report

(Relatório de testes em laboratório)



xr9TjyRD

Name of Sample	PV module (540 W monocristalino bifacial)
Gegenstand der Prüfung	
Type	ESPHSC540
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

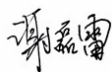
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Name of Sample <i>Gegenstand der Prüfung</i>	PV module (540 W monocristalino bifacial)		Test Purpose <i>Finalidade do teste</i>	Entrusted Tests
Type <i>Tipo de módulo</i>	ESPHSC540		Trade Mark <i>Marca</i>	ERA
Grade <i>Grau</i>	Qualified products			
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>	6004119	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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<b>Collection of The Test Results</b>					
<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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<b>Test item description</b> <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.	ESPHSC540	AS221803037887
2.	ESPHSC540	AS221803037878
Abbreviations: <i>Abreviaturas:</i>		
<i>Pmax</i> – Maximum power <i>Pmax- Potência maxima</i> <i>Vmp</i> – Maximum Power Voltage <i>Vmp –Potência maxima</i> <i>Isc</i> – Short Circuit Current	<i>STC</i> – Standard Test Conditions <i>STC- Condições normais de ensaio</i> <i>FF</i> –Fill Factor <i>FF- Enches o Factor</i> <i>Isc- Curto circuito atual</i>	<i>Voc</i> – Open Circuit Voltage <i>Voc –Circuito aberto de tensão</i> <i>Imp</i> – 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 (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>		

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<b>10.1</b>	<b>Visual inspection</b> <b>INSPEÇÃO VISUAL</b>	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 [<math>V_{DC}</math>]</i>		1500				—
High voltage applied [ $V_{DC}$ ] <i>Alta tensão aplicada [<math>V_{DC}</math>]</i>		4000				—
Insulation resistance measured at [ $V_{DC}$ ] <i>Valor da medição da resistência de isolamento [<math>V_{DC}</math>]</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	9272	/	No	P
2.	2.58	≥15.5	12040	/	No	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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10.6		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>		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 <sup>2</sup> ] <i>Irradiação [W/m<sup>2</sup>]</i>		1000±10					—
Sample # <i>Amostra #</i>	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmax [W]	FF [%]	
1.	49.64	41.62	13.72	13.02	541.79	79.57	
2.	49.59	41.84	13.68	12.96	542.29	79.92	
<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 [<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	2132	—	
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	3105	P
2.	2.58	≥15.5	3279	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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## Photos of modules

### *Fotos dos módulos*

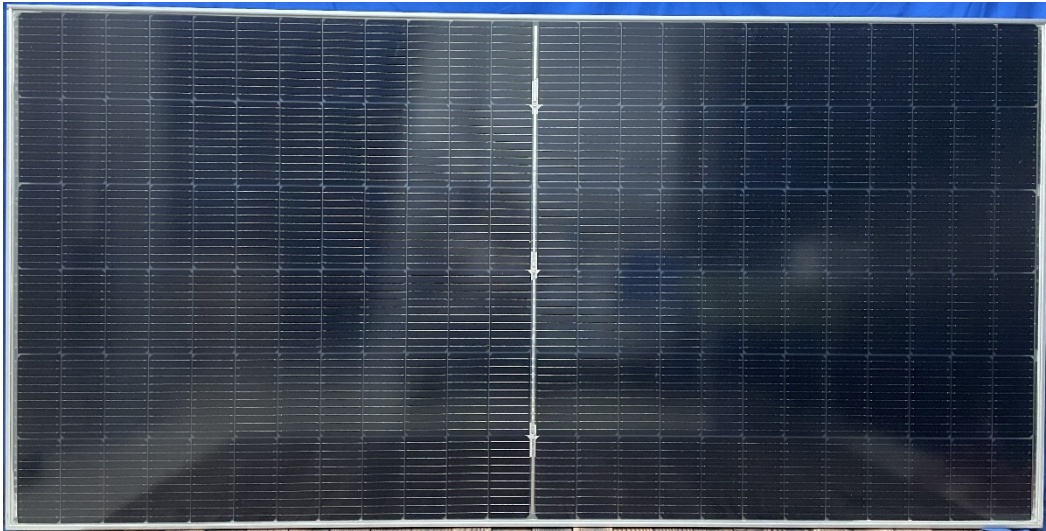


Fig. 1: Front view of module type ESPHSC540

*Fig. 1: Vista frontal do tipo de módulo ESPHSC540*



Fig. 2: Rear view of module type ESPHSC540

*Fig. 2: Vista da parte traseira do tipo de módulo ESPHSC540*

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## Photos of modules

### Fotos dos módulos



Fig. 3: View of junction box of module type ESPHSC540

Fig. 3: Vista detalhada da caixa de junção do tipo de módulo ESPHSC540

<b>ERA</b> SOLAR Modelo 540 W monocristalino bifacial Código ESPHSC540 Potência Máxima 540 W	Tensão em Pmax(Vmp)	41.65 V	Eficiência	20,9% (208,9Wp/m <sup>2</sup> )	 <b>RoHS</b> <b>CE</b> <b>ATENÇÃO: RISCO ELÉTRICO</b> Não conectar ou desconectar o sistema quando energizado. Isso pode acarretar choque elétrico ou situações perigosas. Fabricado na China
	Corrente em Pmax(Imp)	12.97 A	Maxima tensão do sistema	1500 V	
	Corrente de curto circuito (Isc)	13.85 A	Classe de aplicação	Classe A	
	Tensão de circuito aberto (Voc)	49.5 V	Todas informações técnicas nas condições padrão de teste		
	Temperatura de operação	-40 °C~+85 °C	AM:1.5	1:1000 W/m <sup>2</sup>	
Dimensões	2279x1134x35 mm				

Fig. 4: View of type label of module type ESPHSC540

Fig.4: Vista detalhada da placa de características do tipo de módulo ESPHSC540

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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 <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	2279	2.58	540	20.9	A
2.	1134	2279	2.58	540	20.9	A

Supplementary information: none  
*Informação suplementar: nenhuma*

<b>Energy efficiency classes</b> <b>Classe de Eficiência Energética</b>
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*

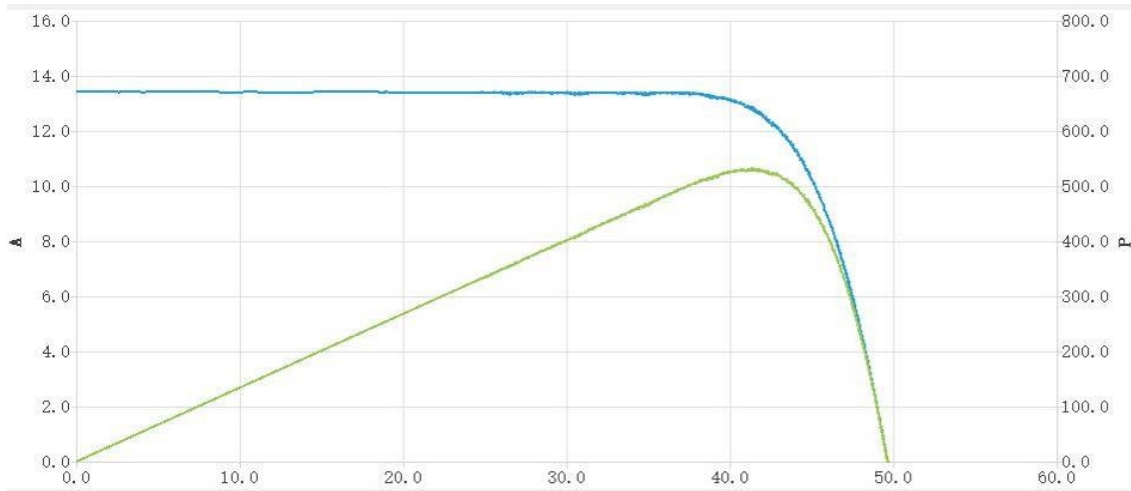


Fig. 5 IV curve of module No.1 Serial number: AS221803037887

*Fig. 5 IV curva de módulo No.1 Número de série: AS221803037887*

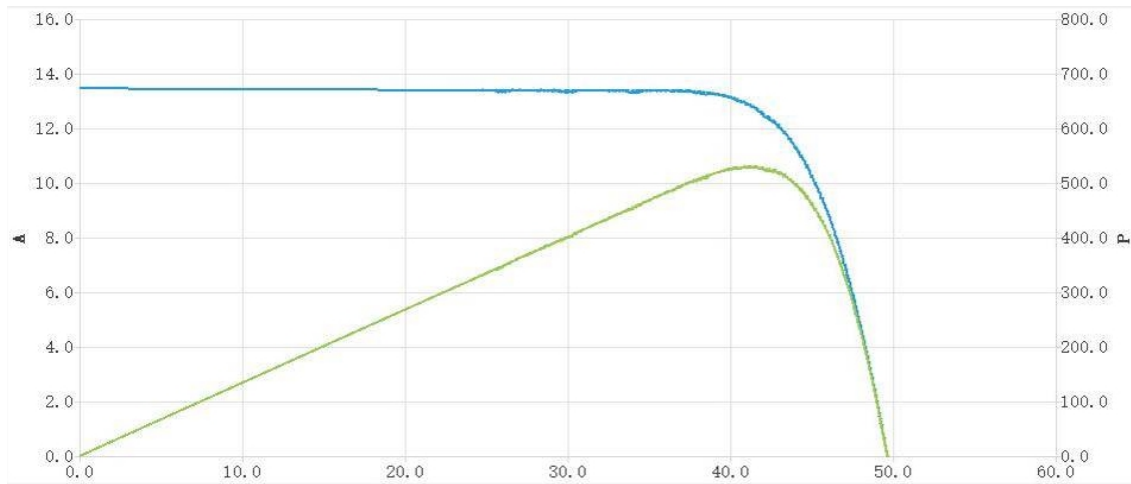


Fig. 6 IV curve of module No.2 Serial number: AS221803037878

*Fig. 6 IV curva de módulo No.2 Número de série: AS221803037878*

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## EL images

### *Imagens de electroluminescência*

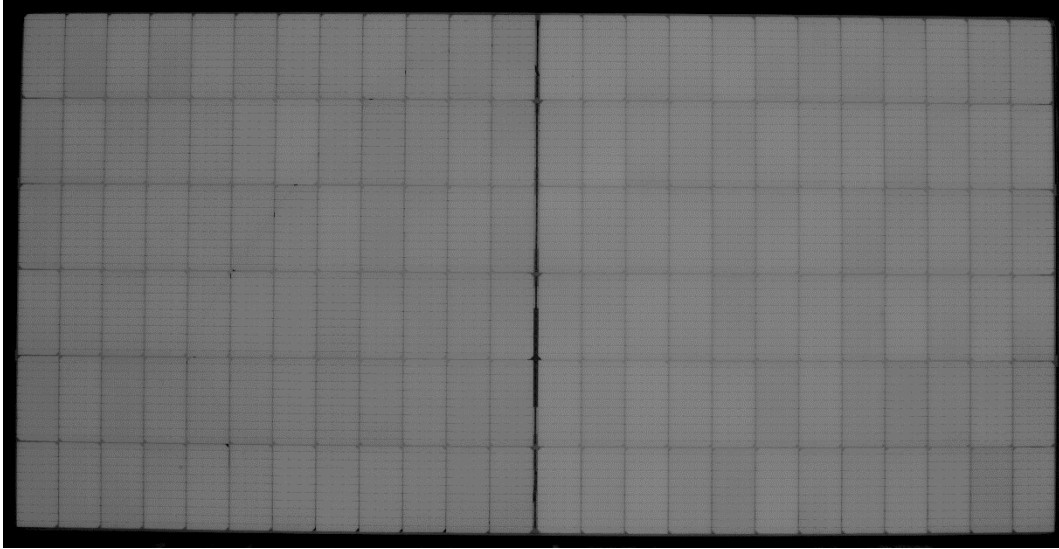


Fig. 7 EL photo of module No.1 Serial number: AS221803037887

*Fig. 7 EL fotografia de módulo No.1 Número de série: AS221803037887*

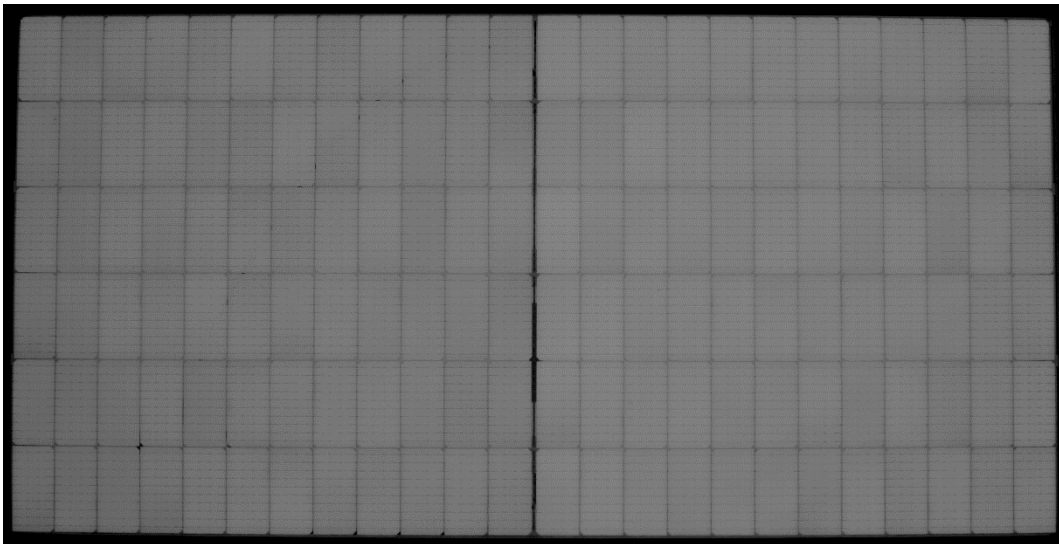


Fig. 8 EL photo of module No.2 Serial number: AS221803037878

*Fig. 8 EL fotografia de módulo No.2 Número de série: AS221803037878*



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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-A2-0140	200~1200W/m <sup>2</sup>	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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- 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.

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地址: 上海市徐汇区苍梧路 381 号 邮编: 200233  
电话: 021-54263362 传真: 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  
E-mail: shihuas@sqi.org.cn  
Address: No.381, Cangwu Rd., Xuhui District, Shanghai Post: 200233  
Tel: 021-54263362 Fax: 021-54265730  
Address: No.3086, West Pingzhuang Rd., Fengxian District, Shanghai (Daily Chemical Products) Post: 201499  
Tel: 021-57493107 Fax: 021-57493162  
E-mail: shihuas@sqi.org.cn
- 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 Luminaires / 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  
E-mail: salt@sqi.org.cn; salt@salmet.com.cn; sdzg@sqi.org.cn  
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@salmet.com.cn, sdzg@sqi.org.cn
- 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  
E-mail: jds@sqi.org.cn  
Address: No.918, Wanrong Rd., Jing'an District, Shanghai Post: 200072  
Tel: 021-56035307, 56652534 Fax: 021-56652624  
E-mail: jds@sqi.org.cn
- 轻工与化工产品质量监督检验所(代码 QG、HG) / 国家日用消费品质量监督检验中心 / 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  
地址: 上海市奉贤区平庄西路 3086 号 邮编: 201499  
电话: 021-54336172; 54336175; 54338258 传真: 021-54336175  
E-mail: qgs@sqi.org.cn; qinggong@sqi.org.cn  
Address: 3<sup>rd</sup> Building, No.900, Jiangyue Rd., Minhang District, Shanghai Post: 201114  
Address: No.3086, West Pingzhuang Rd., Fengxian District, Shanghai Post: 201499  
Tel: 021-54336172, 54336175, 54338258 Fax: 021-54336175  
E-mail: qgs@sqi.org.cn, qinggong@sqi.org.cn
- 建材家居装饰装修质量监督检验所(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监督检验检测中心 / 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  
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  
E-mail: jcs@sqi.com.cn; jiancai@sqi.org.cn  
Address: 5<sup>th</sup> Building, No.900, Jiangyue Rd., Minhang District, Shanghai Post: 201114  
Tel: 021-54336170, 54336225 Fax: 021-54336170  
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
- 电子电器家用电器质量监督检验所(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: 4<sup>th</sup> 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  
E-mail: dqqs@sqi.org.cn  
Address: No.381, Cangwu Rd., Xuhui District, Shanghai Post: 200233  
Tel: 021-54263097, 64336605 Fax: 021-64850806  
E-mail: dqqs@sqi.org.cn
- 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 邮编: 201114  
电话: 021-54336149; 54336148 传真: 021-62892960  
地址: 上海市徐汇区永嘉路 627 号 邮编: 200031  
电话: 021-64372125 传真: 021-64372135  
E-mail: jls@sqi.org.cn  
Address: No.900, Jiangyue Rd., Minhang District, Shanghai Post: 201114  
Tel: 021-54336149, 54336148 Post: 200031  
Tel: 021-64372125 Fax: 021-64372135  
E-mail: jls@sqi.org.cn
- 纤维检验所(代码 XW) / 国家日用消费品质量监督检验检测中心 / 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  
E-mail: xws@sqi.org.cn  
Address: No.1228, Changle Rd., Shanghai Post: 200040  
Tel: 021-62495465 Fax: 021-62481025  
E-mail: xws@sqi.org.cn