220020119646

W02491600054E

oXXv0zm3

检 测 报 告

Test Report

(Relatório de testes em laboratório)

Name of Sample ***Nome da amostra***	**555 W monocristalino bifacial**
Type ***Tipo de modulo***	**ESPHSC555**
Applicant ***Requerente***	**Zhejiang ERA Solar Technology Co., Ltd.**
Test Purpose ***Finalidade do teste***	**Entrusted Tests** ***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

检验检测专用章

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Shanghai Institute of Quality Inspection and Technical Research

Test Report

Report/Relatório: W02491600054E

Name of Sample *Nome da amostra*	555 W monocristalino bifacial	Test Purpose *Finalidade do teste*	Entrusted Tests *Teste de delegação*
Type *Tipo de módulo*	ESPHSC555	Trade Mark *Marca*	ERA® SOLAR
Grade *Nível*	Qualified products *Produtos qualificados*		
Applicant Requerente	Zhejiang ERA Solar Technology Co., Ltd.		
Tested Company *Testado empresa*	/		
Producer *Produtor*	Zhejiang ERA Solar Technology Co., Ltd.		
Number of Client *Número de cliente*	6003054	Entrusting/Sampling Date *Data De entrega*	2024.03.05
Reception Date *Data de recepção:*	2024.03.05	Sampling Spot *Local de amostragem*	/
Sample Quantity *Quantidade de amostra*	2 pcs	Sum of Sample *Soma de amostra*	/
Date of Production *Data De produção*	/	Original Number *Número de serie*	/
Situation of Sample *Situação Da amostra*	Intact Sent by client *Está como estava Enviado pelo cliente*		
Testing Place *Local de realização dos testes:*	No.900 Jiangyue Rd, Shanghai		
Test Standard *Padrão de testes*	IEC 61215-2:2021 Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures		
Judgement Rules *Regras de Acórdãos*	PORTARIA Nº 140, DE 21 DE MARÇO DE 2022		
Date of Testing *Data do teste*	2024.03.06 to 2024.03.21		
Conclusion *Conclusão*	The test report only offers a single testing conclusion; See the details on the page of summary. *O relatório de teste fornece apenas uma conclusão de teste. Veja a página de resumo para detalhes.* (Test Report Badge) Issued Date: 2024.03.21		
Client's Message *Mensagem do cliente*	Add. *Endereço*	Sihai Road, Huangyan Economic Development Zone, Taizhou, 318020 P. R. China	
	Zip Code *Código postal*	318020	Tel. *O telefone* 0086-576-84166969

Approved by: 陈苏声
Aprovado por: 副主任

Checked by:
Revisor:

Tested by:
O testador:

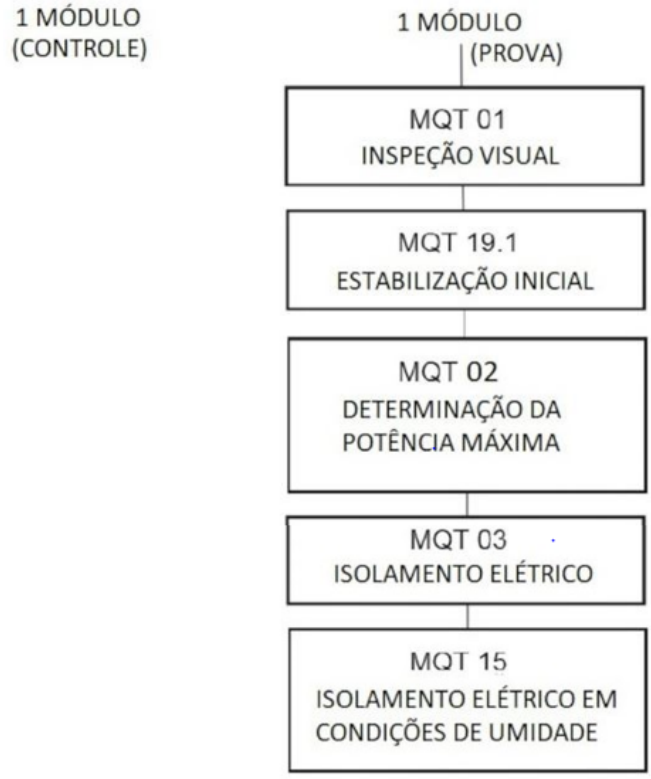
Collection of The Test Results Coleção de testes					
No. *Número*	Test Items *Itens de teste*	Technical Requirements *Requisitos técnicos*	Test Results *Resultados de teste*	Judgements by Single Item *Juízos de valor por item único*	Remarks *Observações*
1	Visual inspection (MQT 01) *Inspeção visual(MQT 01)*	For the tested PV module, major visual defects do not exist. *O modulo não pode apresentar defeitos visuais evidentes.*	Page 6 *Página 6*	Complies *Elegível para*	/
2	Initial Stabilization (MQT 19.1) *Estabilizacão Inicial* (*MQT 19.1*)	Initial stabilization of c-Si modules shall be obtained by exposing to sunlight with an irradiation dose level of ≥10 kWh/m². As a result, modules have reached stabilized electrical power output. *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. Como resultado, módulos alcançaram uma produção de energia elétrica estabilizada.*	Page 7 *Página 7*	Complies *Elegível para*	/

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

Test item description

Teste item descrição

Figura 1 - Fluxograma de ensaios de módulos



List of Test Samples:

Lista de amostras:

Sample # *Amostra*	Model *Modelo*	S/N	Remark *Observações*
1.	ESPHSC555	AS22190802263	Test *PROVA*
2.	ESPHSC555	AS22191110151	Control *Controlo*

Abbreviations:

Abreviaturas:

Pmax– Maximum power	STC – Standard Test Conditions	Voc – Open Circuit Voltage
Pmax- Potência maxima	*STC- Condições normais de ensaio*	*Voc –Circuito aberto de tensão*
Vmp – Maximum Power Voltage	FF –Fill Factor	Imp – Maximum Power Current
Vmp –Potência maxima	*FF- Enches o Factor*	*Imp- Potência máxima actual*
Isc – Short Circuit Current	*Isc- Curto circuito atual*	

Possible test case verdicts:

Caso verdicts:

- test case does not apply to the test object	N/A
O caso do teste não é aplicado ao teste object.....:	*N/A*

- test object does meet the requirement	P (Pass)
O teste object conhece a requisição .....*:*	*P (Passe isso)*
- test object does not meet the requirement .....:	F (Fail)
- O teste object não conhece a requisição.....*:*	*F (Não passou)*
-test case provides measured values	—
- O caso de ensaio é um valor medido .....*:*	—

Remarks：

Observações：

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.

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.

2、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.

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

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

4.1	**Visual inspection** ***INSPEÇÃO VISUAL***	P
Test date [DD/MM/YYYY] *Data de realização dos testes [DD/MM/AAAA]*	06/03/2024	—
Sample # *Amostra #*	Nature and position of findings *Natureza e localização dos desvios*	—
1	No visual defects acc. to PORTARIA Nº 140, DE 21 DE MARÇO DE 2022 *Sem Defeitos visuais de acordo com PORTARIA Nº 140, DE 21 DE MARÇO DE 2022*	P
Supplementary information: none *Informação suplementar: nenhuma*		

4.19.5	**Initial Stabilization** ***ESTABILIZACÃO INICIAL***						P
Light exposure method *Método de exposição à luz*			☐ Solar simulator *Simulador solar*		☒ Natural sunlight *Luz solar natural*		
Stabilization criterion x per IEC 61215-1-x *Critério de estabilização x por IEC 61215-1-x*			1				
Sample # *Amostra #*	1	Test date [DD/MM/YYYY] start-end *Data de realização dos testes [DD/MM/AAAA] início/fim*			06/03/2024-08/03/2024		
Test cycle Ciclo de teste	Integrated irradiation (kWh/m^2) *Irradiação integrada (kWh/m^2)*	Irradiance (W/m^2) *Irradiância (W/m^2)*	Module temperature (°C) *Temperatura do módulo(°C)*	Resistive load *Carga resistiva*	P_{max} (W) at the end of cycle *Pmax (W) no final do ciclo*	$(P_{max} - P_{min}) / P_{average}$ (%) *(Pmax – Pmin) / Paverage (%)*	Stable (Yes/No) *Estábulo (Sim/Não)*
Initial *Inicial*	—	—	—	—	558.97	—	—
1	5	>500	—	MPPT	558.61	—	—
2	10	>500	—	MPPT	557.77	0.22	Yes
3							
4							

Supplementary information: The following formula shall be taken as the criterion: (Pmax – Pmin) / Paverage< x, where x=1% for c-Si modules.

Informação suplementar: A seguinte fórmula deve ser considerada como critério: (Pmax – Pmin) / Pmédia < x, onde x=1% para módulos c-Si.

4.2	**Maximum Power Determination** ***Determinacão de Potência Máxima***						P[1]
Test date [DD/MM/YYYY] *Data de realização dos testes [DD/MM/AAAA]*			11/03/2024				—
Radiant Source *Radiante da fonte*			☒ Solar Simulator *Do simulador Solar*	☐ Natural Sunlight *Natural de luz do sol*			—
Module temperature [°C] *Temperatura do módulo [°C]*			25.0±0.5				—
Irradiance [W/m²] *Irradiação [W/m²]*			1000±5				—
Sample # *Amostra #*	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmax [W]	FF [%]	
1	49.92	41.50	14.04	13.44	557.77	79.59	

Supplementary information:
Informação suplementar:
Measurements were performed at standard test conditions (STC) with a flash light solar simulator class AAA acc. to IEC 61215-2:2021.
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.
measured graphs see IV curves in Photos of modules.
para os valores medidos ver curvas IV no Fotos dos módulos.
[1] The measured power of the PV module shall not be less than 100% or more than 105%.
[1]Os módulos não podem apresentar medida de potência menor que 100% ou maior que 105%.
The measuring uncertainty of Pmax is ≤ ±2.1%.
A incerteza de medição para Pmax é ≤±2.1%.
The measuring uncertainty of Isc is ≤ ±2.0%.
A incerteza de medição para Isc é ≤±2.0%.
The measuring uncertainty of Voc is ≤ ±0.8%
A incerteza de medição para Voc é ≤±0.8%.
Measuring uncertainty includes spectral mismatch error.
A incerteza de medição inclui os erros por desvios no espectro.

4.3	**Insulation test** ***Teste de isolamento***					P
Test date [DD/MM/YYYY] *Data de realização dos testes [DD/MM/AAAA]*				12/03/2024		—
Maximum system voltage [V_{DC}] *Voltagem máxima do sistema [V_{DC}]*				1500		—
High voltage applied [V_{DC}] *Alta tensão aplicada [V_{DC}]*				8000		—
Insulation resistance measured at [V_{DC}] *Valor da medição da resistência de isolamento [V_{DC}]*				1500		—
Sample # *Amostra #*	Area *Área*	Required *Valores-limite*	Measured *Medida*	Dielectric breakdown *Quebra dielétrica*		Result* *Resultado**
	m²	MΩ	MΩ	Yes (description) *Sim (descrição)*	No(description) *Não*	
1	2.58	≥15.5	30040	/	No *Não*	P
*Supplementary information: Minimum requirement acc. to the standard is 40.0 MΩ*m². **Informação suplementar: Os requisitos mínimos de acordo com a norma são 40.0 MΩ*m²*						

4.15	**Wet leakage current test** ***Teste de fuga de corrente molhada***			P
Test date [DD/MM/YYYY] *Data de realização dos testes [DD/MM/AAAA]:*		12/03/2024		—
Insulation resistance measured at [V_{DC}] *Valor da medição da resistência de isolamento [V_{DC}]*		1500		—
Solution temperature [°C] *Temperatura da solução [°C]*		22±2	23.2	—
Solution resistivity [Ω cm] *Resistencia da solução [Ω cm]*		≤3500	1487	—
Sample # *Amostra #*	Area *Área* [m^2]	Required *Valores-limite* [MΩ]	Measured *Medida* [MΩ]	Result* *Resultado**
1	2.58	≥15.5	6877	P
Supplementary information: Minimum requirement acc. to the standard is 40.0 MΩm^2. **Informação suplementar: Os requisitos mínimos de acordo com a norma são 40.0 MΩ*m^2*				

Photos of modules

Fotos dos módulos

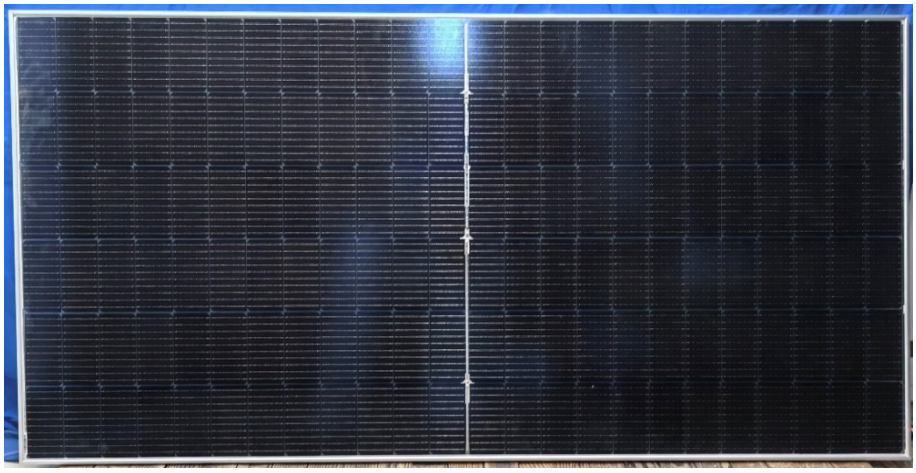


Fig. 1: Front view of module type ESPHSC555

Fig. 1: Vista frontal do tipo de modulo ESPHSC555

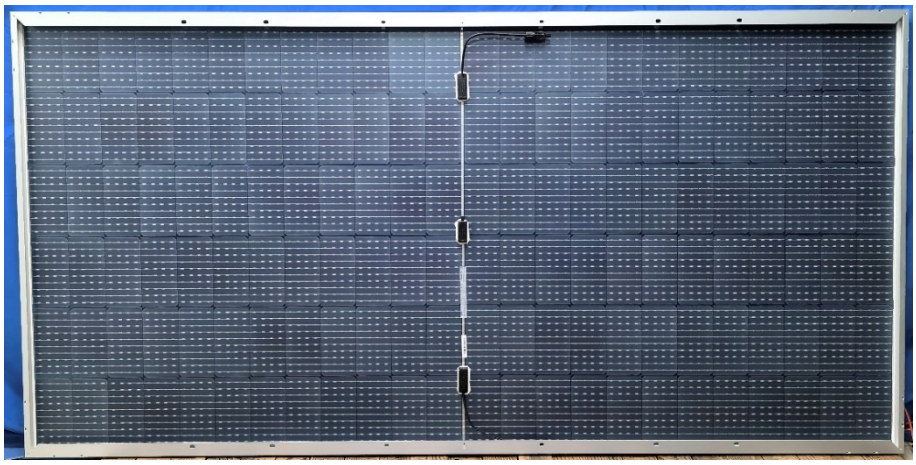


Fig. 2: Rear view of module type ESPHSC555

Fig. 2: Vista da parte traseira do tipo de módulo ESPHSC555

Photos of modules

Fotos dos módulos

Fig. 3: View of junction box of module type ESPHSC555

Fig. 3: Vista detalhada da caixa de junção do tipo de módulo ESPHSC555

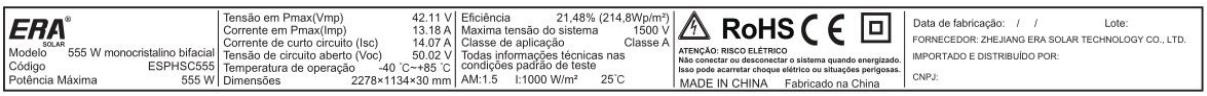


Fig. 4: View of type label of module type ESPHSC555

Fig.4: Vista detalhada da placa de características do tipo de módulo ESPHSC555

lectroluminescence images

Imagens de eletroluminescência

Analysis of electroluminescence images with respect to micro cracks (EL photos)

Analise de imagens de eletroluminescência referente a Microfissuras

Test date [DD/MM/YYYY] *Data de realização dos testes [DD/MM/AAAA]*		12/03/2024
Sample # *Amostra #*	Reverse current applied [A] *Corrente inversa aplicada [A]*	Attributes *Atributos*
1	Isc ± 5%	N/A
Supplementary information: none *Informação suplementar: nenhuma*		

Energy efficiency class

Classe de eficiência energética

Sample # *Amostra #*	Module width *Largura do módulo* [mm]	Module length *Comprimento do módulo* [mm]	Module area *área modulo* [m^2]	Module power *potência módulo* [W]	Module efficiency *eficiência do módulo* [%]
1	1134	2278	2.58	555	21.48
*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	ESPHSC555	21.48	A
Supplementary information: Energy efficiency> 20.0% : classes A; *Informação suplementar:* Eficiência Energética*> 20.0%: Classe A;*			

Energy efficiency classes **Classe de Eficiência Energética**
A ≥ 20.0%
18.0% ≤ B < 20.0%
16.0% ≤ C < 18.0%
14.0% ≤ D < 16.0%
E < 14.0%

Figures

números

.

Fig. 5 IV curve of module No.1 Serial number: AS22190802263

Fig. 5 IV curva de módulo No.1 Número de série: AS22190802263

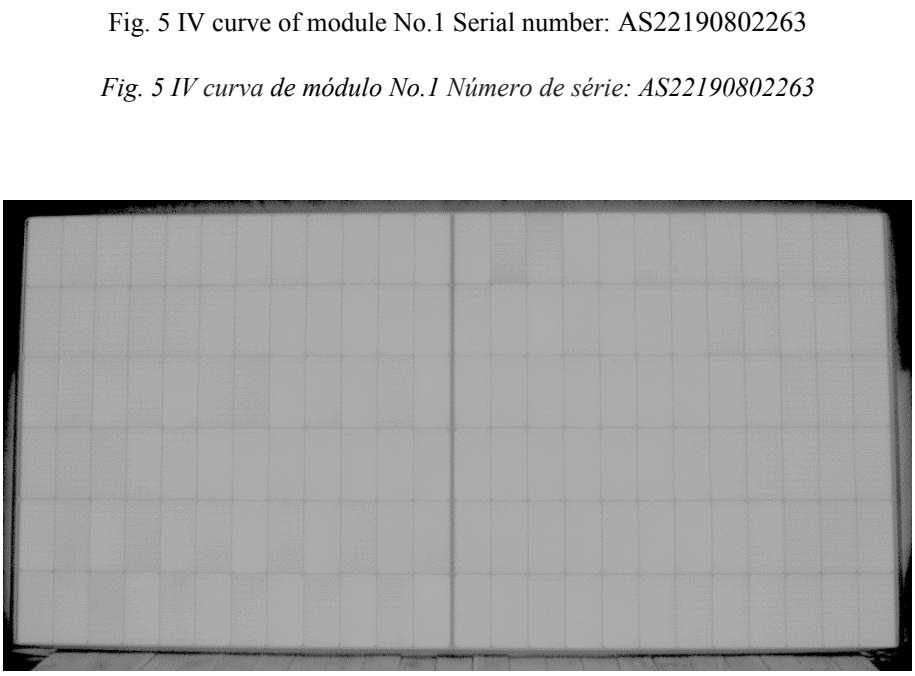


Fig. 6 EL photo of module No.1 Serial number: AS22190802263

Fig. 6 EL fotografia de módulo No.1 Número de série: AS22190802263

List of measurement equipment

Lista de equipamentos de medição

Clause ***Item***	**Measurement / testing** ***Ensaios/ 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	2024-01-30	2025-01-29
		Band tape *Fita métrica* DZ-B-A1-0014	3.5m	2021-09-02	2024-09-01
MQT 19.1	Initial Stabilization *Estabilizacão Inicial*	Pulse solar simulator *Simulador solar pulsado* DZ-A-A2-0140	200~1200W/m^2	2023-10-11	2024-10-10
MQT 02	Maximum Power Determination *Determinacão de Potência Máxima*	Pulse solar simulator *Simulador solar pulsado* DZ-A-A2-0140	200~1200W/m^2	2023-10-11	2024-10-10
		Reference module *Módulo de referência* DZ-B-A2-0122	m-Si	2023-08-24	2024-08-23
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	2024-02-04	2025-02-03
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 ℃	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-B-A2-0111	/	2023-09-02	2024-09-01

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注 意 事 项

Notices

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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.

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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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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)
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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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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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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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7 计量检测所(代码JL)
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