




RELATÓRIO DE TESTE

SGS-CSTC
Standards Technical Services
(Shanghai) Co., Ltd.

No.588 West Jindu Road,
Songjiang District,
Shanghai, China

Relatório de referência nº: SHES230601055871-02
Data de emissão: Jun. 13, 2023
Número total de páginas: 13
Laboratório de testes: SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Endereço: 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Nome do requerente: LUXEN SOLAR ENERGY CO., LTD.
Endereço: No. 1, Haiyue Road, Suxitong Technologies & Industries Park, Nantong City, Jiangsu Province, P. R. China
Especificação de teste: Cláusula MQT 01, MQT 02, MQT 03, MQT 15 da IEC 61215-2:2016
Descrição do item de teste.....: Módulo(s) fotovoltaico(s) (PV)
Marca comercial: 
Fabricante: LUXEN SOLAR ENERGY CO., LTD.
 No. 1, Haiyue Road, Suxitong Technologies & Industries Park, Nantong City, Jiangsu Province, P. R. China
Referência de modelo/tipo: LNVU-550M
Classificações: Consulte a placa de marcação da amostra



Assinatura

Testado por: Janine Tian



Assinatura

Aprovado por: Van Hua



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Lista de testes realizados

Item de teste	Requisito + Teste	Resultado	Veredito
1	Inspeção visual	Ver Tabela 1	P
2	Determinação de potência máxima	Ver Tabela 2	P
3	Teste de isolamento	Ver Tabela 3	P
4	Teste de corrente de fuga úmida	Ver Tabela 4	P

O pré-condicionamento foi realizado com uma dose de irradiância de 5.0 kWh/m².



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Resumo do teste

As amostras enviadas são testadas de acordo com a Cláusula MQT 01, MQT 02, MQT 03, MQT 15 da IEC 61215-2: 2016. Os resultados do teste estão presentes neste relatório de teste.

Testes realizados (nome do teste e cláusula do teste):

IEC 61215-2-2016:
 Inspeção visual (MQT 01)
 Desempenho em STC (MQT 02)
 Teste de isolamento (MQT 03)
 Teste de corrente de fuga úmida (MQT 15)

Local do teste:

Guoce Testing Technology (suzhou) Co., Ltd.
 Building 11, No. 18, Yaofeng East Road, Mudu Town, Wuzhong District, Suzhou, Jiangsu, 215151, China

Cópia da placa de marcação/dispositivo em teste:

Tipo de Módulo: LNVU-550M



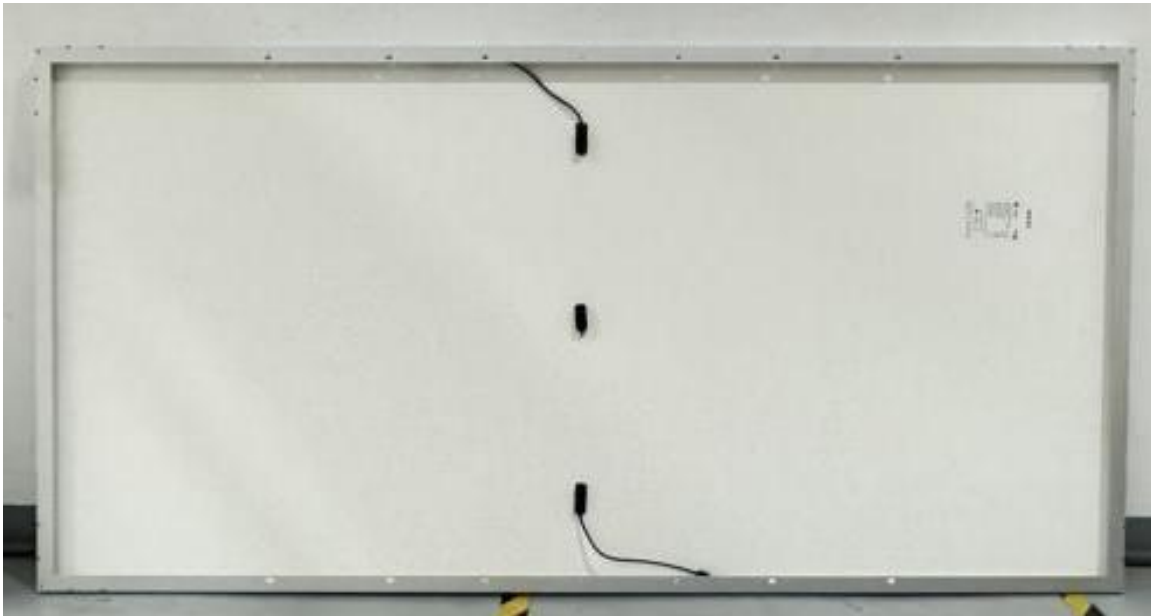
Placa de marcação da Amostra



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Vista frontal da amostra

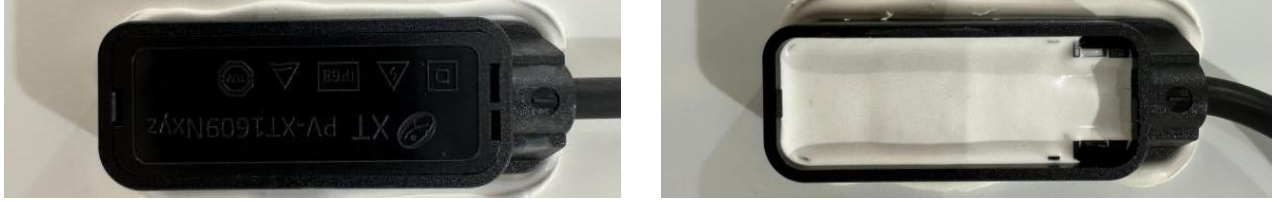


Vista traseira da amostra



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Conector



Caixa de Junção



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Possíveis veredictos de caso de teste						
- O caso de teste não se aplica ao objeto de teste ... :						N/D
- O objeto de teste atende ao requisito :						Passou (P)
- O objeto de teste não atende ao requisito :						Falha (F)
Observações gerais						
<p>Os resultados do teste apresentados neste relatório referem-se apenas ao objeto testado. Este relatório não deve ser reproduzido, exceto na íntegra, sem a aprovação por escrito do laboratório de testes Emissor. "(Consulte o Anexo #)" refere-se a informações adicionais anexadas ao relatório. "(Veja a tabela anexa)" refere-se a uma tabela anexada ao relatório. Ao longo deste relatório, é usado um ponto como separador decimal. A lista de equipamentos de teste deve ser mantida em arquivo e disponível para revisão. Este documento é emitido pela empresa de acordo com as suas Condições Gerais de Serviço, acessíveis em http://www.sgs.com/terms_and_conditions.htm. Chama-se a atenção para as questões de limitação de responsabilidade, indenização e jurisdição aqui definidas. Qualquer titular deste documento é avisado de que as informações aqui contidas refletem as conclusões da Empresa no momento de sua intervenção apenas e dentro dos limites das instruções do Cliente, caso existam. A única responsabilidade da Empresa é para com o seu Cliente e este documento não exonera as partes de uma transação de exercer todos os seus direitos e obrigações nos termos dos documentos da transação. Qualquer alteração não autorizada ou falsificação do conteúdo ou aparência deste documento é ilegal e os infratores podem ser processados em toda a extensão da lei. Salvo indicação em contrário: (a) os resultados mostrados neste documento referem-se apenas à(s) amostra(s) testada(s) e (b) tal(is) amostra(s) é(são) retida(s) por 30 dias. Este documento não pode ser reproduzido, exceto na íntegra, sem autorização prévia da empresa. Conteúdos: 1) O relatório principal 2) Apêndice 1: Lista de equipamentos de medição 3) Apêndice 2: Declaração da incerteza estimada dos resultados do teste</p>						
Informações gerais do produto						
O produto é um módulo fotovoltaico (PV).						
Descrição da construção modular						
Modelo		Tipo de Célula		Nº de células		Dimensão [mm]
LNVU-550M		Mono-crystalline		144		2279x1134x35
Dados Técnicos						
Tipo/Modelo	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	Tensão Máx. do Sistema [V]
LNVU-550M	50.32	42.28	13.90	13.01	550	1500



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Tipo/Modelo	eficiência do módulo [%]	Classe de eficiência energética
LNVU-550M	21.28	A
Informação suplementar: Eficiência Energética > 13.5%: Classe A.		
Classe de Eficiência Energética	A > 13.5%	
	13% < B ≤ 13.5%	
	12% < C ≤ 13%	
	11% < D ≤ 12%	
	E < 11%	



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1. Procedimento de amostragem

<input type="checkbox"/> Amostragem aleatória da produção (por ex. durante auditoria de fábrica (FA) ou inspeção em linha)
<input type="checkbox"/> Amostragem aleatória do armazém, contêiner ou caixas de transporte
<input checked="" type="checkbox"/> Os módulos foram enviados pelo fabricante/cliente sem amostragem aleatória pela SGS

2. Amostra de teste

Amostra #	Tipo de Modelo	Número de Série
01	LNVU-550M	VUMC314163770452
02		VUMC314163770839

3. Especificação e resultado do teste

TABELA 1: MQT 01 Inspeção visual		
Data do Teste [AAAA-MM-DD] :	2023-06-08	—
Amostra #	Natureza e posição das descobertas iniciais	Veredito
01	Sem grandes defeitos visuais	P
02	Sem grandes defeitos visuais	P
Informação suplementar: N/D		

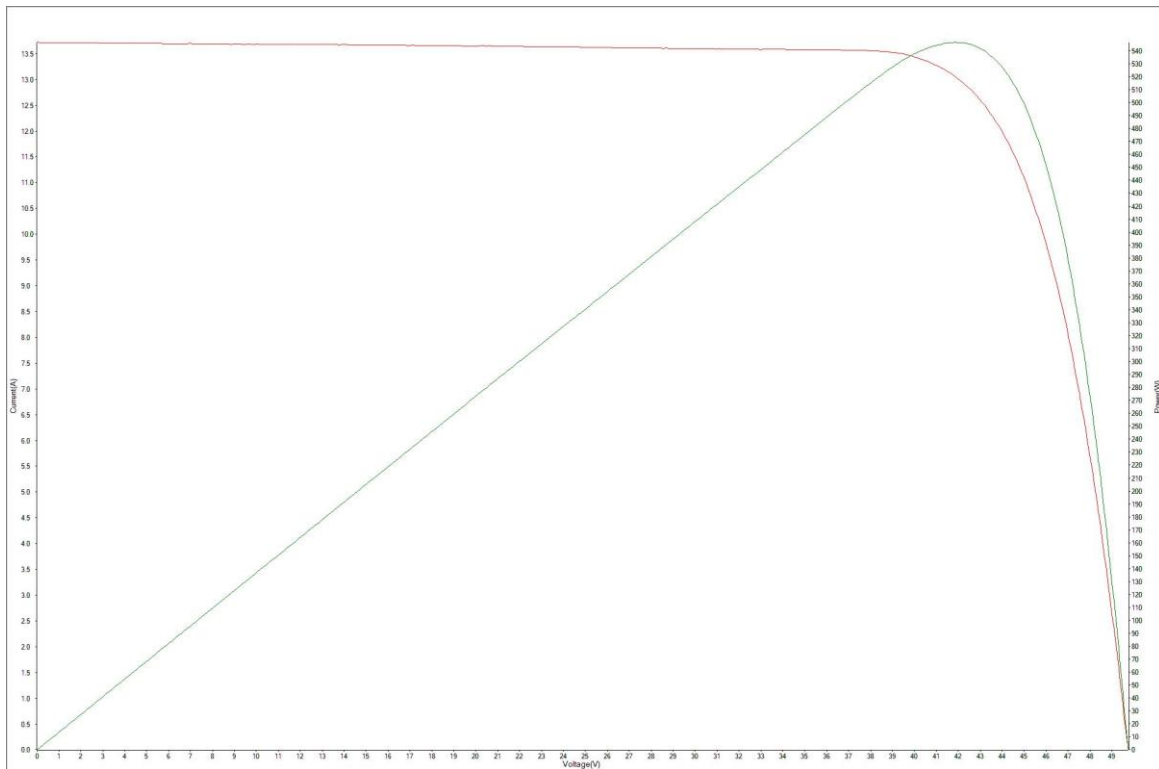


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TABELA 2: MQT 02 Determinação de potência máxima

Data do Teste [AAAA-MM-DD]..... :		2023-06-08		—		
Método de Teste		<input checked="" type="checkbox"/> interior		<input type="checkbox"/> exterior		—
Temperatura do módulo [°C]:		Corrigida para 25.0				—
Irradiância [W/m ²]..... :		Corrigida para 1000				—
Amostra #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]
01	49.74	41.88	13.72	13.05	546.5	80.08
02	49.64	41.79	13.66	12.98	542.4	79.95

Curva IV:

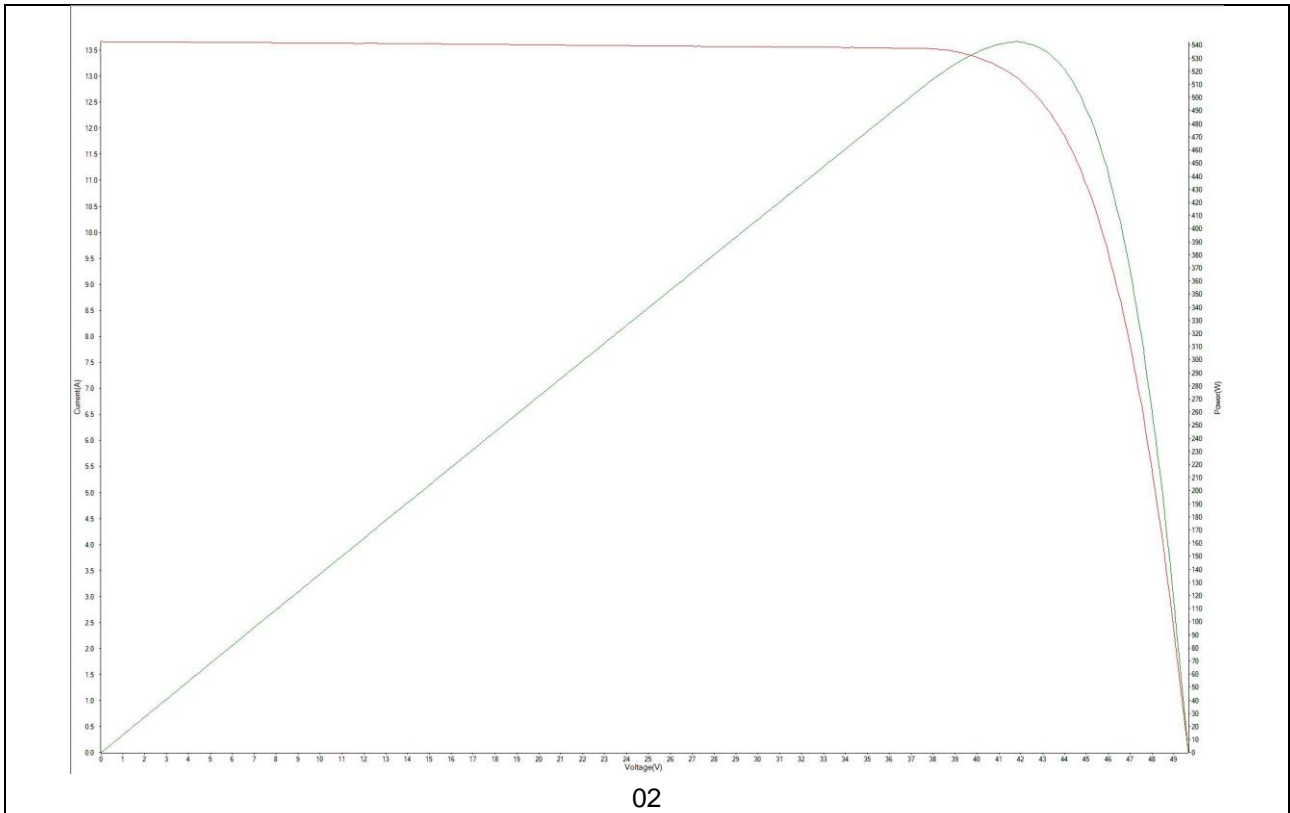


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Informação suplementar: Consulte o Apêndice 2: Declaração da incerteza estimada dos vereditos do teste. A discrepância entre o valor de potência rotulado e o valor medido não deve exceder o limite de -5%~10%.

TABELA 3: MQT 03 Teste de isolamento

Data do Teste [AAAA-MM-DD] :	2023-06-09			—	
Tensão de Teste aplicada [V]	4000V 1min/1500V 2min			—	
Tamanho do módulo [m²]..... :	2.58			—	
Amostra #	Medido	Resistência Requerida	Quebra dielétrica		Resultado
			MΩ	MΩ	
01	27452	≥15.50	—	Não	P
02	25554	≥15.50	—	Não	P

Informação suplementar: O requisito mínimo de acordo com IEC 61215:2016 é 40 MΩ *m².

TABELA 4: MQT 15 Teste de corrente de fuga úmida



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Data do Teste [AAAA-MM-DD]		2023-06-09	—
Tensão de Teste aplicada [V]		1500V 2min	—
Resistividade da solução [Ω cm)		1967	—
Temperatura da solução [°C]:		24.2	—
Tamanho do módulo [m²].....		2.58	—
Amostra #	Resistência Requerida [M Ω]	Medido [M Ω]	Resultado
01	≥ 15.50	9195	P
02	≥ 15.50	17816	P
Informação suplementar: O requisito mínimo de acordo com IEC 61215:2016 é 40 M Ω *m ² .			



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Apêndice 1: Lista de equipamentos de medição

Cláusula	Medição/teste	Teste/equipamento de medição/material usado	ID do Equipamento	Data de vencimento da calibração
4.1 10.2	Inspeção visual	Luminômetro	PM6612L	2024.02.13
4.3 10.13	Teste de isolamento	Testador de resistência à tensão/isolamento	GCYQ-AG-18	2023.08.18
4.6	Desempenho em STC	Simulador Solar Pulsado	GIV-20A2616	2023.08.02
4.15 10.14	Teste de corrente de fuga úmida	Testador de resistência à tensão/isolamento	GCYQ-AG-18	2023.08.18
		Medidor condutor	GCYQ-AG-07	2023.11.01

Apêndice 2: Declaração da incerteza estimada dos resultados do teste

A incerteza estimada cumpre os requisitos da folha de decisão CTL DSH 251B / 2009.

----- Fim do Relatório de Teste -----



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