

RELATÓRIO DE TESTE

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

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



Page 2 of 22 Report No.: SHES230601056171-02

Relatório de referência nº: SHES230601056171-02

Data de emissão: Jun. 13, 2023

Número total de páginas 22

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:

LUXEN

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: LNET-670M,

LNET-665MD, LNET-690ND

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	Р
2	Determinação de potência máxima	Ver Tabela 2	Р
3	Teste de isolamento	Ver Tabela 3	Р
4 Teste de corrente de fuga úmida		Ver Tabela 4	Р

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.

Report No.: SHES230601056171-02

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: LNET-670M



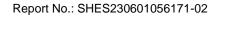
Placa de marcação da Amostra

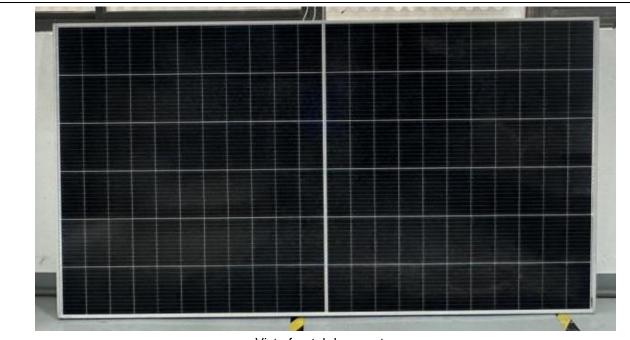


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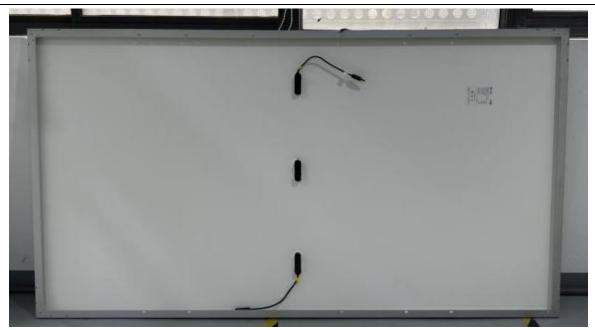
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Vista frontal da amostra

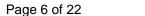


Vista traseira da amostra



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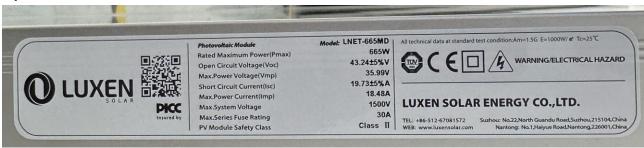






Caixa de Junção





Placa de marcação da Amostra



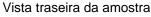
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Vista frontal da amostra





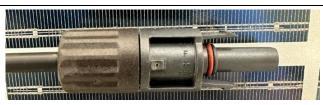


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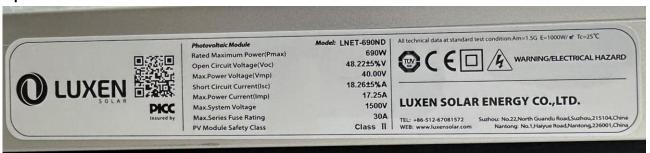
Conector





Caixa de Junção

Tipo de Módulo: LNET-690ND



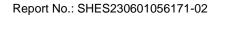
Placa de marcação da Amostra

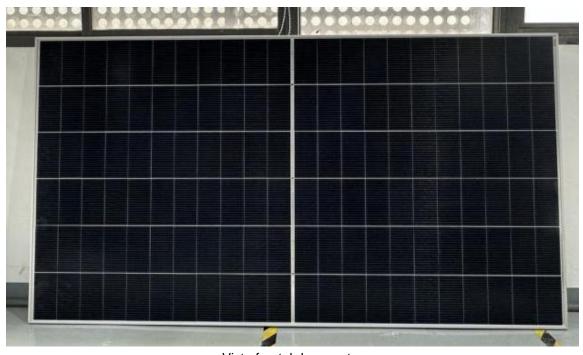


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Vista frontal da amostra

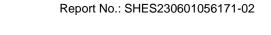




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Conector





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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

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.

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Conteúdos:

- 1) O relatório principal
- 2) Apêndice 1: Lista de equipamentos de medição
- 3) Apêndice 2: Declaração da incerteza estimada dos resultados do teste

Informações gerais do produto

O produto é um módulo fotovoltaico (PV).

Descrição da construção modular

		•	
Modelo	Tipo de Célula	Nº de células	Dimensão [mm]
LNET-670M	Mono-crystalline	132	2384x1303x35
LNET-665MD	Mono-crystalline	132	2384x1303x35
LNET-690ND	Mono-crystalline	132	2384x1303x35
Dados Técnicos			



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				_				
Tipo/Modelo	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	Tensão Máx. do Sistema [V]		
LNET-670M	45.71	38.22	18.78	17.53	670	1500		
LNET-665MD	43.24	35.99	19.73	18.48	665	1500		
LNET-690ND	48.22	40.00	18.26	17.25	690	1500		
				•				
Tipo/	Modelo		eficiência do módu	lo [%]	Classe de eficiênd	cia energetica		
LNE	Г-670М		21.57		А			
LNET	-665MD		21.41		A			
LNET	-690ND		22.21		А			
Informação supl	ementar: Eficiê	ncia Energe	ética> 13.5%: Class	se A.				
		A>13.	A>13.5%					
		13%<	13% <b≤13.5%< td=""></b≤13.5%<>					
Classe de Efici	ência Energéti	ca 12%<	12% <c≤13%< td=""></c≤13%<>					
		11%<	11% <d≤12%< td=""></d≤12%<>					
		E<11	%					
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1. Procedimento de amostragem

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

2. Amostra de teste

Amostra #	Tipo de Modelo	Número de Série
01	LNET 670M	2960639192201091
02	LNET-670M	2960639192201093
03	LNET CCEMP	M01220800449306
04	LNET-665MD	M01220800458634
05	LNET COONE	SO23062YC018118
06	LNET-690ND	SO23062YC018212

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	Р			
02	Sem grandes defeitos visuais	Р			
03	Sem grandes defeitos visuais	Р			
04	Sem grandes defeitos visuais	Р			
05	Sem grandes defeitos visuais	Р			
06	Sem grandes defeitos visuais	Р			
Informação suplementar: N/D		•			



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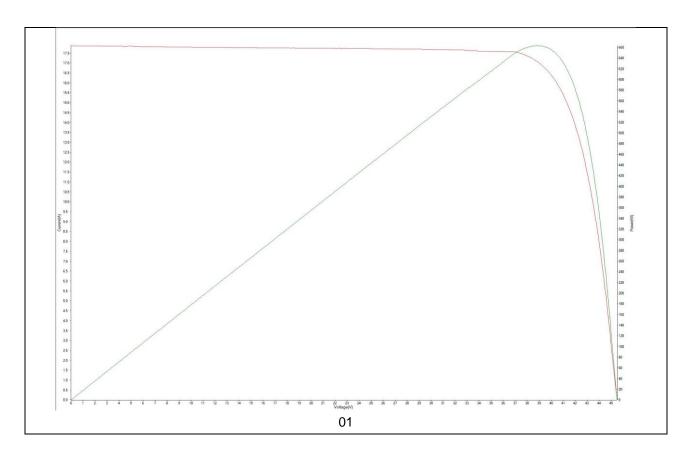


TABELA 2: MQ	TABELA 2: MQT 02 Determinação de potência máxima					
Data do Teste [AAAA-MM-DD]: 2023-06-08					_	
Método de Test	е			☐ exte	rior	_
Temperatura do	módulo [°C]:		Corrigida para 25	5.0		_
Irradiância [W/n	າ ²]	:	Corrigida para 10	000		_
Amostra #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]
01	45.47	38.87	17.87	17.06	663.1	81.58
02	45.44	38.82	17.86	17.04	661.6	81.51
03-F	45.76	38.60	17.82	17.05	658.1	80.71
03-B	45.25	39.01	12.85	11.67	455.4	78.32
04-F	45.81	38.49	17.89	17.08	657.6	80.25
04-B	45.18	38.90	12.84	11.68	454.5	78.32
05-F	46.81	39.16	17.98	17.10	669.7	79.58
05-B	46.49	39.45	13.71	12.66	499.4	78.34
06-F	46.92	39.11	18.04	17.18	671.9	79.36
06-B	46.43	39.38	13.71	12.67	498.9	78.36
			Curva IV:			



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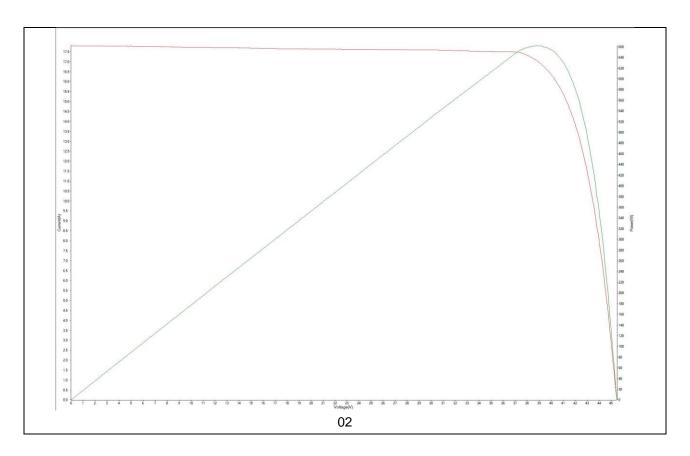




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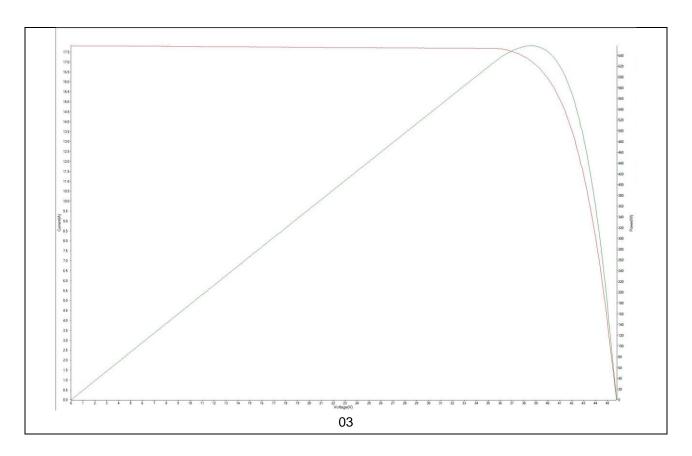




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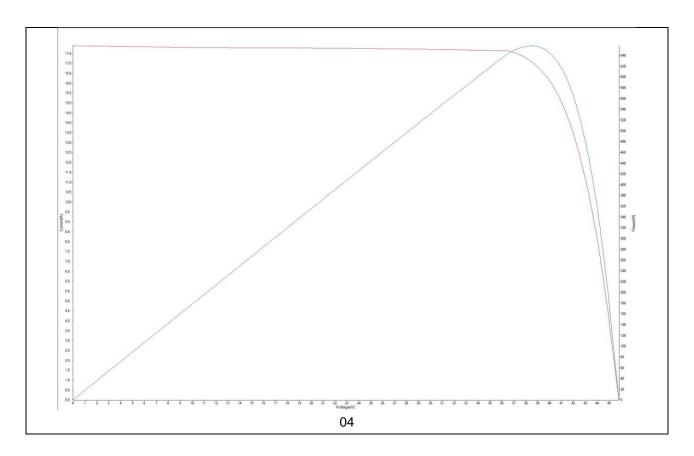




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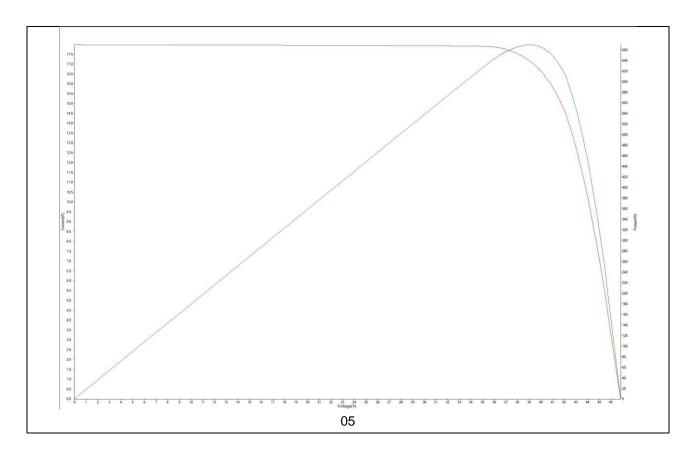




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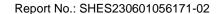


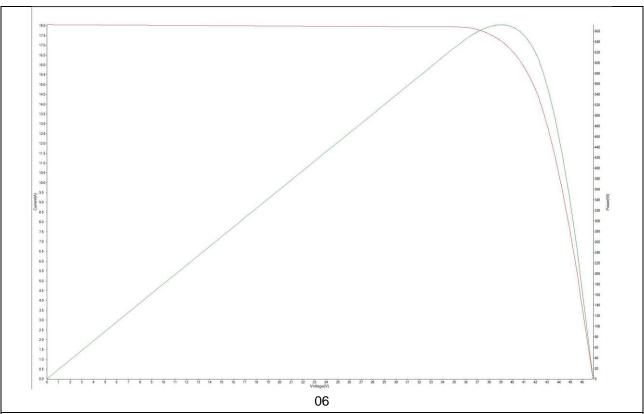


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Informação suplementar: Consulte o Apêndice 2: Declaração da incerteza estimada dos vereditos do teste. A discrepância entre o valor de potência rotulado e o valor medido não deve exceder o limite de -5%~10%.

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 d	lo módulo [m²]:	3.11			_
Amostra #	Medido	Resistência Requerida	cia Requerida Quebra dielétrica		
	ΜΩ	ΜΩ	Sim (descrição) Não		do
01	27493	≥12.86	— Não		Р
02	25796	≥12.86	_	Não	Р
03	25765	≥12.86 — Não		Р	
04	27846	≥12.86	Р		
05	22104	≥12.86	_	Não	Р



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06	19590	≥12.86	_	Não	Р
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					
Data do Teste [AAAA-MM-DD]		202	3-06-09	_	
Tensão de T	este aplicada [V]:	150	0V 2min		
Resistividad	e da solução [Ω cm):	196	7	_	
Temperatura	a da solução [°C]:	24.2		_	
Tamanho do	módulo [m²]:	3.11		_	
Amostra #	Resistência Requerida [MΩ]		Medido [MΩ]	Resulta do	
01	≥12.86		11475	Р	
02	≥12.86		14285	Р	
03	≥12.86		15969	Р	
04 ≥12.86			13683	Р	
05	05 ≥12.86		12072	Р	
06 ≥12.86			13304	Р	
Informação suplementar: O requisito mínimo de acordo com IEC 61215:2016 é 40 MΩ *m².					



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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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