

Certificado nº / *Certificate No.:* **HC23090101003-EG-BR-C001**Data de emissão / *Date of issue:* 2023-11-13Válido até / *Valid until:* Indefinidamente / *Indefinitely*

<b>Requerente / Applicant:</b>	<b>Sungrow Power Supply Co., Ltd.</b> No.1699, Xiyou Road, New & High Technology Industrial Development Zone, HeFei City, Anhui Province, P.R.China
<b>Tipo de dispositivo / Device Type:</b>	Inversor fotovoltaico on-grid / <i>Grid-connected PV inverter</i>
<b>Modelo(s) / Model(s):</b>	<b>SG333HX</b>
<b>Marca Registrada / Trademark:</b>	<b>SUNGROW</b>
<b>Dados técnicos / Technical data:</b>	Potência c.a. nominal / <i>Rated output power [kW]:</i> 320 Tensão c.a. nominal / <i>Rated output AC voltage:</i> 3~/PE, 800 V, 60 Hz (Para obter mais detalhes, consulte o anexo / <i>For further details see annex A.2 na / on p.2</i> )
<b>Versão do software / Software version:</b>	LCD_EUCLASE-S_V11_V01_A; MDSP_EUCLASE-S_V11_V01_A
<b>Padrão(ões) / diretriz(es) aplicada(s) / Applied standard(s) / guideline(s):</b>	<b>ABNT NBR 16149</b> , Sistemas fotovoltaicos (FV) – Características da interface de conexão com a rede elétrica de distribuição <b>ABNT NBR 16150</b> , Sistemas fotovoltaicos (FV) — Características da interface de conexão com a rede elétrica de distribuição - Procedimento de ensaio de conformidade <b>Portaria INMETRO nº 357:2014</b> , Portaria n.º 357, de 01 de agosto de 2014, <b>ANEXO III - parte 2</b> <b>IEC 62116:2008 (ABNT NBR IEC 62116:2012)</b> , Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters
<b>Esquema de certificação / Certification scheme:</b>	<b>CMPD-01</b>
<b>Relatório de teste nº: / Test report no.:</b>	<b>HC23090101003-EG-BR-001 (2023-11-10)</b>

Este certificado confirma que a(s) unidade(s) geradora(s) mencionada(s) acima, com o software correspondente, atende(m) aos requisitos da(s) norma(s) / diretriz(es) mencionada(s) no momento da emissão do certificado. /

*This certificate confirms that the above-mentioned generating unit(s) with corresponding software meet the requirements of the referenced standard(s) / guideline(s) at the time of issuance of the certificate.*

This certificate relates to type testing and does not imply LYNS's endorsement, approval, certification or on-going control of the product(s), either in terms of performance, design, manufacture or materials used. This certificate and the results stated herein relate solely to the sample product(s) tested and to the specific tests undertaken.

The certificate will remain valid for the stated period providing no changes are made to the product, production method etc. This certificate is only valid when this is also found at <http://www.lyns-tci.com/en/certificate-search> or contact Lyns-tci Technology Guangdong Co., Ltd..

This certificate is for the exclusive use of LYNS's Client and is provided pursuant to the agreement between LYNS and its Client. LYNS's responsibility and liability are limited to the terms and conditions of the agreement. LYNS assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned using this verification.

The certificate is comprised of 2 pages (including Annex of 1 pages).

Dongguan, 2023-11-13

**Dipl.-Ing. Weizhao Zheng**  
**Head of certification body**

Certification body Lyns-tci Technology Guangdong Co., Ltd. accredited according to ISO/IEC 17065 for product certification.

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## A.1 Histórico de revisão do certificado / Revision history of the certificate

Nº de revisão / Rev. No.	Data / Date	Alterações / Changes
Rev. 0	2023-11-13	Emissão inicial / Initial issue

## A.2 Dados técnicos da unidade geradora de energia / Technical data of the power generating unit

<b>Modelo / Model</b>	<b>SG333HX</b>
Conexões fotovoltaicas / DC input (PV)	
Tensão c.c. máxima / Max. DC input voltage [V]	1500
Faixa de operação do MPPT / MPPT voltage range [V]	500 ~ 1500
Corrente c.c. máxima / Max. Input DC current	(três opções / three options) 40 A * 12 or 30 A * 16
Conexão com a rede / AC connection	
Número de fases / No. of phases	<input type="checkbox"/> Monofásicos / Single-phase <input checked="" type="checkbox"/> Trifásicos / Three-phase
Tensão c.a. nominal / Rated output AC voltage [V]	800 V (tensão fase-fase / phase-to-phase voltage) + PE, 60Hz
Corrente c.a. máxima fornecida / Output AC current [A]	max. 240.5
Potência c.a. nominal / Nominal active output power [kW]	320
Potência aparente máxima / Max. apparent power [kVA]	333
Faixa de temperatura ambiente de operação / Operating temperature range	-30°C ~ +60°C
Grau de proteção (IP) / Degree of protection	IP66 (de acordo com / according to EN 60529)
Classe de proteção / Protection class	I (de acordo com / according to IEC 62109-1)
Tipo de transformador interno / Type of internal transformer	Sem transformador interno / No internal transformer (sem transformador / transformerless)
Versão do software / Software version	LCD_EUCLASE-S_V11_V01_A; MDSP_EUCLASE-S_V11_V01_A
Fabricante / Manufacturer	<p><b>Sungrow Power Supply Co., Ltd.</b> No.608 Changning Avenue, New &amp; High Technology Industrial Development Zone, Hefei, Anhui 230088, P.R. China</p> <p><b>Sungrow Developers (India) Private Limited</b> No.250/3, T-Begur Village, Kasaba Hobli, Nelamangala Taluk, Bengaluru (Bangalore) Rural, Karnataka,562123, India</p> <p><b>Sungrow Developers (Thailand) Co., Ltd.</b> No. 22/4 Moo 10, Nong Kham Sub-District, Si Racha District, Chonburi Province, 20230, Thailand</p>
Laboratório de testes / Testing laboratory	<p><b>LYNS-TCI TECHNOLOGY GUANGDONG CO., LTD.</b> Room 1201, Unit 2, Building 18, No. 7, Science and Technology Boulevard, Houjie Town, Dongguan City, Guangdong, 523960 P.R.C (Acreditado de acordo com / Accredited acc. ISO/IEC 17025: Acreditação A2LA nº / A2LA Accreditation no. 5200.02)</p>
Local do teste / Testing location	Igual ao anterior / Same as above
Data(s) de realização dos testes / Date(s) of performance of tests	2023-10-24 - 2023-11-04