

Certificate of compliance

Applicant: SUNGROW POWER SUPPLY CO., LTD.

No,1699 Xiyou Rd, New & High Technology Industrial Development Zone, Hefei, 230088
P.R.China

Product: Photovoltaic inverter

Model: SG150CX

The device is designed to work as a generation unit of the type: A and B

Inverter for three-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

Applied rules and standards:

EN 50549-1:2019/A1:2023

Requirements for parallel connection of installations with distribution networks - Part 1: Connection to an LV distribution network - Production of installations up to and including Type B

- 4.4 Normal operating range
- 4.5 Immunity to disturbances*
- 4.6 Active response to frequency deviation
- 4.7 Power response to voltage variations and voltage changes
- 4.8 EMC and power quality
- 4.9 Interface protection
- 4.10 Connection and starting to generate electrical power
- 4.11 Ceasing and reduction of active power on set point
- 4.13 Requirements regarding single fault tolerance of interface protection system and interface switch

EN 50549-10:2022

Requirements for generating plants to be connected in parallel with distribution networks - Part 10: Tests for conformity assessment of generating units

Compliance with the parameters in Annex C of the standard

(see manufacturer's declaration)

Commission Regulation (EU) 2016/631 of 14 April 2016

Establishing a network code on requirements for grid connection of generators (NC RFG).

Type approval for generation units to use in Type A and B* plants.

* 4.5 Immunity to disturbances, only limited grid support mode was tested (zero current mode) for FRT function.

At the time of issue of this certificate, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

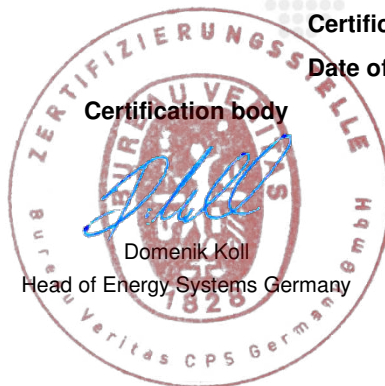
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Certificate number: U25-0212

Certification Program: NSOP-0032-DEU-ZE-V10

Date of issue: 2025-03-12

Accreditation



Accredited certification body by Deutsche Akkreditierungsstelle GmbH (DAkkS) according to ISO/IEC 17065. The accreditation is valid only for the scope listed in the annex of the accreditation certificate D-ZE-12024-01-00. The Deutsche Akkreditierungsstelle GmbH (DAkkS) is signatory of the multilateral arrangements of EA, ILAC and IAF for mutual recognition.

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Type Approval and declaration of compliance with the requirements of EN 50549-1 and Commission Regulation (EU) 2016/631 of 14 April 2016

Manufacturer	SUNGROW POWER SUPPLY CO., LTD. No,1699 Xiyou Rd, New & High Technology Industrial Development Zone, Hefei, 230088 P.R.China			
Product type	Photovoltaic inverter			
Static converter model	SG150CX	--	--	--
Input DC (photovoltaic)				
MPP voltage range [V]	180-1000	--	--	--
Max. input voltage [V]	1100	--	--	--
Max. input current per MPPT [A]	48	--	--	--
Output AC				
Rated AC voltage [V]	3L/N/PE, 230/400, 50/60 Hz	--	--	--
Rated output current [A]	217,4	--	--	--
Max. output current [A]	250,7	--	--	--
Nom. converter output (P _{NINV}) [kW]	150	--	--	--
Rated apparent power [kVA]	165	--	--	--
Interface protection system and interface switch (Network and system protection "NS-protection")				
Type of protection	Integrated NS-protection			
Assigned to generation unit type	SG150CX			
Integrated interface switch	Type of switching equipment 1: Relay (Model HF167F-270) Type of switching equipment 2: Relay (Model HF167F-270) Note: The output is switched off by the inverter bridge and two relay in series in each line and neutral.			
Firmware version	LCD_MARBLE-S_V11_V01_A MDSP_MARBLE-S_V11_V01_A			
Note The settings of the generators are password protected adjustable. In case the generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer's declaration. The above stated generators are tested according to the requirements in the EN 50549-1 and the Commission Regulation (EU) 2016/631 of 14 April 2016. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.				