

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: Energy Storage Converter

Model: SC125CX
SC110CX
SC125CX-V241
SC125CX-V242
SC65CX
SC50CX

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
- 4.12 Remote information exchange
- 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

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.

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.

Report number: SGR-ESH-P23121833-R2

Certificate number: U25-0449

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

Date of issue: 2025-05-09

Certification body

Accreditation



Domenik Koll
Head of Energy Systems Germany



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
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Product type	Energy Storage Converter
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Static converter model	SC125CX	SC125CX-V241	SC125CX-V242	SC110CX
Input DC (battery)				
DC voltage range [V]	600-1000	600-1000	600-1000	600-1000
Max. DC voltage [V]	1000	1000	1000	1000
Max. DC current per DC input [A]	212,5	212,5	212,5	205,8
Output AC				
Rated AC voltage [V]	3L/N/PE,230/400, 50/60Hz	3L/N/PE,230/400, 50/60Hz	3L/N/PE,230/400, 50/60Hz	3L/N/PE,230/400, 50/60Hz
Rated output current [A]	181,0	181,0	181,0	159,0
Max. output current [A]	208,9	208,9	208,9	183,8
Nom. converter output (P _{NINV}) [kW]	125,0	125,0	125,0	110,0
Rated apparent power [kVA]	137,5	137,5	137,5	121,0

Static converter model	SC100CX	SC65CX	SC50CX	--
Input DC (battery)				
DC voltage range [V]	600-1000	600-1000	600-1000	--
Max. DC voltage [V]	1000	1000	1000	--
Max. DC current per DC input [A]	187,1	121,6	93,6	--
Output AC				
Rated AC voltage [V]	3L/N/PE,230/400, 50/60Hz	3L/N/PE,230/400, 50/60Hz	3L/N/PE,230/400, 50/60Hz	--
Rated output current [A]	145,0	93,8	72,1	--
Max. output current [A]	167,1	108,6	83,5	--
Nom. converter output (P _{NINV}) [kW]	100,0	65,0	50,0	--
Rated apparent power [kVA]	110,0	71,5	55,0	--

Interface protection system and interface switch (Network and system protection “NS-protection”)	
Type of protection	Integrated NS-protection
Assigned to generation unit type	SC125CX SC110CX SC125CX-V241 SC125CX-V242 SC65CX SC50CX
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	MDSP_DIOPSIDE-B_V11_V01_A
Note The settings of the interface protection are password protected adjustable. In case the above stated 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 50549-1:2019 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.	