

Certificate of compliance

Applicant: Sino Soar Hybrid(Shenzhen)Technology Co., Ltd
501, Building G, Tangxi Zhigu, No. 21 Xijing Road, Gushu Community, Xixiang Street, Bao'an District, Shenzhen
China

Product: Photovoltaic and battery inverter (Hybrid-Inverter)

Model: SP30HBG2, SP30HBPS, SP25HBG2, SP25HBPS

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

Inverter for single-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

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

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 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: CLOK-ESH-P25010250

Certificate number: U25-0111

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

Date of issue: 2025-02-17

Accreditation



Type Approval and declaration of compliance with the requirements of EN 50549-1 and Commission Regulation (EU) 2016/631 of 14 April 2016				
Manufacturer	Sino Soar Hybrid(Shenzhen)Technology Co., Ltd 501, Building G, Tangxi Zhigu, No. 21 Xijing Road, Gushu Community, Xixiang Street, Bao'an District, Shenzhen China			
Product type	Photovoltaic and battery inverter (Hybrid-Inverter)			
Static converter model	SP30HBG2	SP25HBG2	SP30HBPS	SP25HBPS
Input DC (photovoltaic)				
MPP voltage range [V]	200-800	200-800	--	--
Max. input voltage [V]	850	850	--	--
Max. input current per MPPT [A]	32/32	25/25	--	--
Input DC (battery)				
DC voltage range [V]	200-850	200-850	200-850	200-850
Max. DC current [A]	100	80	100	80
Output AC				
Rated AC voltage [V]	L/N/PE, 230/400, 50Hz	L/N/PE, 230/400, 50Hz	L/N/PE, 230/400, 50Hz	L/N/PE, 230/400, 50Hz
Rated output current [A]	43,5	36,2	43,5	36,2
Rated apparent power [VA]	30000	25000	30000	25000
Interface protection system and interface switch (Network and system protection "NS-protection")				
Type of protection	Integrated NS-protection			
Assigned to generation unit type	SP30HBG2, SP30HBPS, SP25HBG2, SP25HBPS			
Integrated interface switch	Type of switching equipment 1: Relay (Model CHS01-V-124HA2) Type of switching equipment 2: Relay (Model CHS01-V-124HA2) Note: The output is switched off by the inverter bridge and two relay in series in each line and neutral.			
Firmware version	0508800			
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.				