

Certificate

No. **ESY 073342 0457 Rev. 00**

Prototype Confirmation

Holder of Certificate: **Sungrow Power Supply Co., Ltd.**

No. 1699 Xiyou Road, New & High
Technology Industrial Development Zone,
230088 Hefei, Anhui
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter
(Hybrid Inverter)**

Model(s): **SH125CX**

Parameters: See page 2

Applicable standards: VDE-AR-N 4110:2023
FGW TR8:2019

This Certificate confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290243200401

Date, 2026-01-08

Kennen Wang

(Kennen Wang)

Certificate

No. ESY 073342 0457 Rev. 00

Parameters:

General and Input/output values	
Manufacturer	Sungrow Power Supply Co., Ltd.
Type name	SH125CX
No. of phases	3 phases
Rated apparent power	125 kVA
Rated active power	125 kW
Rated AC-voltage	230/400, 3W+N+PE
Rated frequency	50 Hz
Contribution to short circuit current (RMS)	189.9 A _{AC}
PV Input values	
Min. MPP voltage	180 V _{DC}
Max. MPP voltage	1000 V _{DC}
Max. DC input voltage	1100 V _{DC}
Max. DC input current	10*40 A _{DC}
Max. peak power	187500 W
Battery Input/Output values	
Min. Battery voltage	129 V _{DC}
Max. Battery voltage	880 V _{DC}
Max. Charge/Discharge current	200/200 A _{DC}
Max. Charge/Discharge power	125/125 kW
Converter-Power section	
Manufacturer	Sungrow Power Supply Co., Ltd.
Type name	SH125CX
Rated apparent power	125 kVA
Generic type	MV/LV transformer is not included in the inverter
Pulse rated of inverter	16 kHz
Generic type of power control	PQ and MPP-Tracking
Software version	ARM: 01011.00.31 MDSP: 03011.01.01 SARM: 04011.01.01 CPLD: 08011.01.01 AFCI: 06003.02.01

Certificate

No. **ESY 073342 0457 Rev. 00**

Prototype Confirmation			
Manufacturer	Sungrow Power Supply Co., Ltd.		
Power generation unit type	Hybrid Inverter, type 2		
Technical data	Rated active power:	SH125CX	125 kW
	Rated voltage:	SH125CX	230/400, 3W+N+PE
	Nominal frequency:	SH125CX	50 Hz
Network connection rule	VDE-AR-N 4110:2023 "TCR Medium-voltage" Technical requirements for the connection and operation of customer installations to the medium voltage network		
Certification program	FGW Technical guideline No 8 (Revision 9)		
The following data sheet and test data are evaluated according to clause 12 of VDE-AR-N 4110:2023 and clause 2.11 of FGW TR8:2019 for confirmation of regulation for prototypes: <ul style="list-style-type: none"> • Electrical data (Nominal and rated values) (See Page 2) • Schematic overview of the generation unit with all essential components (See Page 4) • Operating ranges of the generating unit <ul style="list-style-type: none"> - Limits in quasi-stationary operation/Limits in steady-state operation; - Reactive power setting range; - FRT limit curve (U/t diagram); • Protection functions with setting ranges <ul style="list-style-type: none"> - Decoupling protection; - Self-protection; • Active power control <ul style="list-style-type: none"> - Power-frequency behaviour; - Active power gradient; • Reactive power control • Dynamic reactive current feed-in <ul style="list-style-type: none"> - Basic mode of operation; • Declaration of the manufacturer stating compliance of VDE-AR-N 4110:2023 of above models. Remark: 1. For the detail, see the technical report 64.290.24.32004.01 for the full evaluation according to clause 12 of VDE-AR-N 4110:2023 and clause 2.11 of FGW TR8:2019. 2. The validity of this prototype confirmation is limited to 2 years from the issued date to the certificate expiry date below. Full verification of the requirements must be carried out as a unit certificate before this certificate expiry date.			
Certificate expiry date	2028-01-07		

Certificate

No. **ESY 073342 0457 Rev. 00**

Schematic set-up of the power generation unit

