



# Grid Integration Certificate

No. D 073342 0357 Rev. 00

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

(PV Grid-connected Inverter)

Model(s): SG125HX

See below pages Parameters:

VDE-AR-N 4110:2018 Tested VDE-AR-N 4120:2018

according to: FGW TR3: 2018

FGW TR4: 2019 FGW TR8: 2019

This grid integration 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 TIÜV SÜD Product Service certification program Photovoltaics and Grid Integration Revision 5. For details see: www.tuvsud.com/ps-cert

Test report No .: 64290213090301

Date, 2021-11-29

(Billy Qiu)





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#### Parameters:

d.c. Max. Input Voltage:	1500 Vd.c.	
d.c. MPP Range:	500-1500 Vd.c.	
d.c. Max. Input Current:	30 A /30 A /30 A /30 A /30 A /30 A	
Isc PV:	50 A /50 A /50 A /50 A /50 A /50 A	
a.c. Output Nominal Voltage:	800 Va.c., 3P~PE	
a.c. Nominal Operating Frequency:	50 Hz	
a.c. Output Max. Current:	90.2 Aa.c.	
a.c. Output Rated Power:	125 kW	
a.c. Output Max. Apparent Power:	125 kVA	
Power Factor(adj.):	0.8(lagging)0.8(leading)	
Reactive power setting range during Q set-point mode and Q(U) control	-75.0 to +75.0 kVar	
Generic type	HV/LV transformer is not included in the inverter	
Pulse rated of inverter	16kHz	
Contribution to short circuit current:	0.288 kA	
Generic type of power control	MPP-Tracking	
Software version	LCD_DIOPSIDE-S_V11_V01_A MDSP_DIOPSIDE-S_V11_V01_A	



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	Unit Certificate	
Manufacturer	Sungrow Power Supply Co., Ltd.	
Power generation unit type	Inverter, type 2	
Technical data	Rated active power:	125 kW
	Rated voltage	800 Va.c., 3P~PE
	Nominal frequency:	50 Hz
Network connection rule	VDE-AR-N 4110:2018-11 "TCR Medium-voltage" Technical requirements for the connection and operation of customer installations to the medium voltage network  VDE-AR-N 4120:2018-11 "TCR High-voltage" Technical requirements for the connection and operation of customer installations to the high voltage network	
Certification program	FGW Technical guideline No 8 (Revision 9)	
Standards/guidelines which are also applicable	FGW Technical guideline No 3 (Revision 25) FGW Technical guideline No 4 (Revision 9)	

The power generating unit designated above meets the requirements of the VDE application guide listed above.

The following restriction(s) and deviation(s) apply:

The computer simulation model is validated with the built environment DigSilent 1. Powerfactory 2020 and with the identity number: model SG125HX, MD5 code: C720B6DAAC93FC93C9D0A3FEB79E21E3

The manufacturer has provided proof of certification of the quality management system of his production facility in accordance with ISO 9001.

The certificate includes the following:

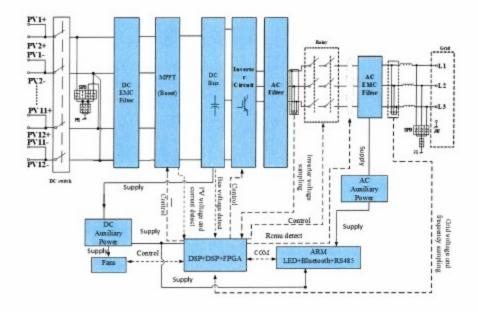
- technical data of the power generating unit, the auxiliary equipment used and the software version used(See Page 2);
- schematic set-up of the power generation unit(See Page 4);
- summarized information on the properties of the power generating unit(Technical report 64.290.21.30903.01 for the full evaluation according to FGW TR8 guideline).
- This certificate is valid until 2026-11-28 (YYYY.MM.DD)

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Schematic set-up of the power generation unit



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