



**BUREAU
VERITAS**

Certificate of compliance

Applicant: **Ginlong Technologies Co., Ltd.**
No.57 Jintong Road, Binhai Industrial Park, Xiangshan, 315712 Ningbo, Zhejiang,
PEOPLE'S REPUBLIC OF CHINA

Product: **Hybrid Inverter**

Model: **S6-EH1P3K-L-EU**
S6-EH1P3.6K-L-EU
S6-EH1P4.6K-L-EU
S6-EH1P5K-L-EU
S6-EH1P6K-L-EU

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

DIN VDE V 0124-100:2020 (5.5.2.1 Functional safety of network and system protection)

Grid integration of generator plants - Low-voltage - Test requirements for generator units to be connected to and operated in parallel with low-voltage distribution networks

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

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: CCCV-ESH-P22100044 **Certification Program:** NSOP-0032-DEU-ZE-V01
Certificate number: U22-0650 **Date of issue:** 2022-10-21

Certification body



Certification body Bureau Veritas Consumer Products Services Germany GmbH accreditation to DIN EN ISO/IEC 17065

Testing laboratory accredited according to DIN EN ISO/IEC 17025

A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH



Annex to the EN 50549-1 certificate of compliance No. U22-0650

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Appendix

Extract from test report according to EN 50549-1 No. CCCV-ESH-P22100044

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

Manufacturer / applicant	Ginlong Technologies Co., Ltd. No.57 Jintong Road, Binhai Industrial Park, Xiangshan, 315712 Ningbo, Zhejiang, PEOPLE'S REPUBLIC OF CHINA
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Micro-generator Type	Photovoltaic and battery inverter			
	S6-EH1P3K-L-EU	S6-EH1P3.6K-L-EU	S6-EH1P4.6K-L-EU	S6-EH1P5K-L-EU
Battery voltage range	40-60 Vdc			
Max.Charge/Discharge current	62,5 Ad.c.	75 Ad.c.	100 Ad.c.	105 Ad.c.
Max.DC voltage	600 Vd.c.			
MPPT voltage range	90-520 Vd.c.			
Max. PV current	16/16 Ad.c.			
Rated grid voltage	230 Va.c., 50/60 Hz			
Rated AC Output current	13,0 Aa.c.	15,7 Aa.c.	20,0 Aa.c.	21,7 Aa.c.
Max. AC Output current	15,0 Aa.c.	18,2 Aa.c.	21,0 Aa.c.	25,0 Aa.c.
Rated AC Output active Power	3000 W	3600 W	4600 W	5000 W
Max. AC apparent Power	3300 VA	4000 VA	4600 VA	5500 VA

	S6-EH1P6K-L-EU	--	--	--
Battery voltage range	40-60 Vdc	--	--	--
Max.Charge/Discharge current	125 Ad.c.	--	--	--
Max.DC voltage	600 Vd.c.	--	--	--
MPPT voltage range	90-520 Vd.c.	--	--	--
Max. PV current	16/16 Ad.c.	--	--	--
Rated grid voltage	230 Va.c., 50/60 Hz	--	--	--
Rated AC Output current	26,1 Aa.c.	--	--	--
Max. AC Output current	30,0 Aa.c.	--	--	--
Rated AC Output active Power	6000 W	--	--	--
Max. AC apparent Power	6600 VA	--	--	--

Firmware version	A1
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Description of the structure of the power generation unit:
 The power generation unit is equipped with a PV and line-side EMC filter. The power generation unit has no galvanic isolation between DC input and AC output. Output switch-off is performed with single-fault tolerance based on the inverter bridge and two series-connected relays in each line and neutral. This enables a safe disconnection of the power generation unit from the network in case of error.



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Extract from test report according to EN 50549-1

No. CCCV-ESH-P22100044

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.