

Compliance Document

No. D 086470 0108 Rev. 01

Holder of Certificate: **Ginlong Technologies Co., Ltd.**

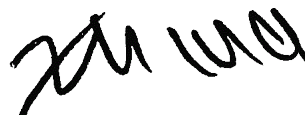
No.57 Jintong Road
Binhai Industrial Park, Xiangshan
315712 Ningbo, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
Grid-interactive inverter with storage
battery system

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 704092103621-01

Date, 2022-11-25



(Zhengdong Ma)

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Model(s):

Grid-interactive inverter: RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS,
 RAI-3K-48ES-5G, RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, RHI-4K-48ES-5G-NS,
 RHI-4.6K-48ES-5G, RHI-4.6K-48ES-5G-NS,
 RHI-5K-48ES-5G, RHI-5K-48ES-5G-NS,
 RHI-6K-48ES-5G, RHI-6K-48ES-5G-NS,
 S5-EH1P3K-L, S5-EH1P3.6K-L, S5-EH1P5K-L, S5-EH1P6K-L, S5-EH1P3.6K-L-NS, S5-EH1P4K-L-NS, S5-EH1P4.6K-L-NS, S5-EH1P5K-L-NS, S5-EH1P6K-L-NS
 Storage battery system: US5000, US5000-B

Parameters:

The following generators meet the requirements of CEI 0-21:2022						
Section A	Manufacturer	Ginlong Technologies Co., Ltd. No.57 Jintong Road, Binhai Industrial Park, Xiangshan, 315712 Ningbo, Zhejiang, PEOPLE'S REPUBLIC OF CHINA				
	Equipment type	Grid-interactive inverter with storage battery system				
	Brand	Solis				
	Number of phase	☒ Single phase ☐ Three phase Frequency: 50Hz Voltage: a.c. 230V				
	Primary energy used	☒ Solar ☒ Storage ☐ Wind ☐ Hydroelectric ☐ CHP ☐ Other: Note: RAI-3K-48ES-5G can be operated with battery input only, other models can be operated with both PV and battery inputs.				
	Generator model	RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS, S5-EH1P3K-L, RAI-3K-48ES-5G, S5-EH1P3K-L-NS	RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, RHI-4K-48ES-5G-NS, S5-EH1P3.6K-L, S5-EH1P3.6K-L-NS, S5-EH1P4K-L-NS	RHI-4.6K-48ES-5G, RHI-4.6K-48ES-5G-NS, S5-EH1P4.6K-L, S5-EH1P4.6K-L-NS	RHI-5K-48ES-5G, RHI-5K-48ES-5G-NS, S5-EH1P5K-L, S5-EH1P5K-L-NS	RHI-6K-48ES-5G, RHI-6K-48ES-5G-NS, S5-EH1P6K-L, S5-EH1P6K-L-NS
	Rated power	3000 W / 3300 VA	3600 W / 4000 VA	4600 W / 4600 VA	5000 W / 5500 VA	6000 W / 6600 VA

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	The generator: ☐ is suitable for installation in systems with an output power of more than 11.08 kW ☒ is capable of limiting Idc to 0.5% of rated current: ☒ uses a DC-sensitive protection function ☐ uses a transformer operating at mains frequency
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Section B	Characteristics of the interface protection system					
	Manufacturer	Ginlong Technologies Co., Ltd.				
	Model	RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS, RAI-3K-48ES-5G, RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, RHI-4K-48ES-5G-NS, RHI-4.6K-48ES-5G, RHI-4.6K-48ES-5G-NS, RHI-5K-48ES-5G, RHI-5K-48ES-5G-NS, RHI-6K-48ES-5G, RHI-6K-48ES-5G-NS, S5-EH1P3K-L, S5-EH1P3.6K-L, S5-EH1P4.6K-L, S5-EH1P5K-L, S5-EH1P6K-L, S5-EH1P3K-L-NS, S5-EH1P3.6K-L-NS, S5-EH1P4K-L-NS, S5-EH1P4.6K-L-NS, S5-EH1P5K-L-NS, S5-EH1P6K-L-NS				
	Type	☒ Integrated ☐ Not integrated				
Section C	Characteristics of inverter(s)					
	Model of inverter	RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS, S5-EH1P3K-L, RAI-3K-48ES-5G, S5-EH1P3K-L-NS	RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, RHI-4K-48ES-5G-NS, S5-EH1P3.6K-L, S5-EH1P3.6K-L-NS, S5-EH1P4K-L-NS	RHI-4.6K-48ES-5G, RHI-4.6K-48ES-5G-NS, S5-EH1P4.6K-L, S5-EH1P4.6K-L-NS	RHI-5K-48ES-5G, RHI-5K-48ES-5G-NS, S5-EH1P5K-L, S5-EH1P5K-L-NS	RHI-6K-48ES-5G, RHI-6K-48ES-5G-NS, S5-EH1P6K-L, S5-EH1P6K-L-NS
	Manufacturer of inverter	Ginlong Technologies Co., Ltd.				
	Firmware version	A1				
	Rated power of inverter (P _{NINV})	3000 W	3600 W	4600 W	5000 W	6000 W

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Section E

Characteristics of the Storage System (SdA)							
Representative Combination	RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS, RAI-3K-48ES-5G, S5-EH1P3K-L, S5-EH1P3K-L-NS with US5000 or US5000-B (1-16 pieces)	RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, S5-EH1P3.6K-L, S5-EH1P3.6K-L-NS, RHI-4K-48ES-5G-NS, S5-EH1P4K-L-NS with US5000 or US5000-B (1-16 pieces)	RHI-XK-48ES-5G, RHI-XK-48ES-5G-NS, S5-EH1PXX-L, S5-EH1PXX-L-NS(X=4.6, 5, 6) with US5000 or US5000-B (1 piece)	RHI-4.6K-48ES-5G, RHI-4.6K-48ES-5G-NS, S5-EH1P4.6K-L, S5-EH1P4.6K-L-NS with US5000 or US5000-B (2-16 pieces)	RHI-5K-48ES-5G, RHI-5K-48ES-5G-NS, S5-EH1P5K-L, S5-EH1P5K-L-NS with US5000 or US5000-B (2-16 pieces)	RHI-6K-48ES-5G, RHI-6K-48ES-5G-NS, S5-EH1P6K-L, S5-EH1P6K-L-NS with US5000 or US5000-B (2-16 pieces)	
Psn (nominal discharge power)	3000	3000	3400	4500	4500	4500	
Pcn (nominal charging power)	3000	3600	4200	4600	5000	6000	
Psmax (max. discharge power)	3000	3000	3400	4500	4500	4500	
Pcmax (max. charging power)	3000	3600	4200	4600	5000	6000	
Type	☒ Bidirectional ☐ Monodirectional						
Batteries that can be used with the above static converters							
Brand	Pylon						
Technology	Li-Ion						
Models	US5000, US5000-B						
CUS module (kWh)	4.8						
BMS firmware version	US5000_MMCB_U150						
Number of modules	1-16						
Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with Pylon instruction.						

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Section I	References of the laboratories that performed the tests and their test reports (RdP)		
	Selected method	☒ Tests performed under the supervision of a certification body	☒ Tests performed by an accredited laboratory
	Test Reports (RdP)	1) Test report according to Annex A, Annex B & Bbis: 70.409.20.081.14-00, 70.409.21.036.20-00 and 70.409.21.036.21-01	2) Test report EMC: a) C19-447-WT-01; b) C19-447-WT-02; c) 64772228001902
	Issued by	Testing lab: 1) Ginlong Technologies Co., Ltd. Tests performed under supervision of certifier from TÜV SÜD Product Service GmbH	2) -a) & -b) Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co.,Ltd. 2) -c) TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
	Accreditation No.	D-ZE-11321-01-00	2) -a) & b) CNAS L0130 2) -c) CNAS L3584
	Accreditation body ref.	DAKKS	CNAS
Section M	Reference of the certification body		
	Certification Body	TÜV SÜD Product Service GmbH DAKKS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013	

Tested according to:

CEI 0-21:2022