

# Compliance Document

No. D 086470 0061 Rev. 00

**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**  
**Hybrid inverter and AC coupled energy**  
**inverter with storage battery system**

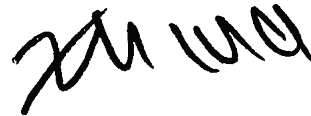
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**Test report no.:**

704092008114-00

**Date,**

2020-08-21



( Zhengdong Ma )

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## Model(s):

Hybrid inverter: RHI-3K-48ES, RHI-3K-48ES-5G,  
 RHI-3K-48ES-5G-NS, RHI-3.6K-48ES,  
 RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS,  
 RHI-4K-48ES-5G-NS, RHI-4.6K-48ES,  
 RHI-4.6K-48ES-5G, RHI-4.6K-48ES-5G-NS,  
 RHI-5K-48ES, RHI-5K-48ES-5G,  
 RHI-5K-48ES-5G-NS, RHI-6K-48ES,  
 RHI-6K-48ES-5G, RHI-6K-48ES-5G-NS

AC coupled energy inverter: RAI-3K-48ES-5G,

Storage battery system: US2000 (1-8 pieces), US3000 (1-8 pieces), FC0048M/FL4874M (2-4 pieces)

## Parameters:

AC coupled energy inverter with storage battery system:		
1) Storage battery system parameters:		
Battery Type	Li-ion	
Model	Manufacturer	Piece(s) of battery module recommended
US2000	Pylon Technologies Co., Ltd.	1-8
US3000	Pylon Technologies Co., Ltd.	1-8
FC0048M/FL4874M	Pylon Technologies Co., Ltd.	2-4
BMS firmware version	V4.6	
2) AC coupled energy inverter parameters:		
Inverter model name	RAI-3K-48ES-5G	
a) Battery input:		
Battery voltage range	40-60 Vd.c.	
Max. Charge current	60 Ad.c.	
Max. Discharge current	60 Ad.c.	
b) AC-Output (Back-up):		
Rated output voltage	230 Va.c.	
Rated frequency	50 Hz	
Rated output current	13 Aa.c.	
Rated output active power	3000 W	
Rated output apparent power	3000 VA	

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AC coupled energy inverter with storage battery system:	
c) AC-Output (Grid Side):	
Rated output voltage	230 Va.c.
Rated frequency	50 Hz
Rated output current	13 Aa.c.
Max. output active power	3000 W
Max. output apparent power	3000 VA
Power factor	0.8 leading - 0.8 lagging
d) AC input:	
Rated input voltage	230 Va.c.
Rated frequency	50 Hz
Max. input current	32 Aa.c.
e) Other parameters:	
Protective class	Class I
Operation temperature range	-25...60°C
Ingress protection	IP65
Overtoltage-category	II (DC), III (MAINS)
Firmware version	DSP1: V06, DSP2: V00, ARM: V08

<b>Hybrid inverter with storage battery system:</b>		
1) Storage battery system parameters:		
Battery Type	Li-ion	
Model	Manufacturer	Piece(s) of battery module recommended
US2000	Pylon Technologies Co., Ltd.	1-8
US3000	Pylon Technologies Co., Ltd.	1-8
FC0048M/FL4874M	Pylon Technologies Co., Ltd.	2-4
BMS firmware version	V4.6	
2) Hybrid inverter parameters:		
Inverter model name	RHI-3K-48ES, RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS, RHI-3.6K-48ES, RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, RHI-4K-48ES-5G-NS, RHI-4.6K-48ES, RHI-4.6K-48ES-5G, RHI-4.6K-48ES-5G-NS, RHI-5K-48ES, RHI-5K-48ES-5G, RHI-5K-48ES-5G-NS, RHI-6K-48ES, RHI-6K-48ES-5G, RHI-6K-48ES-5G-NS	
a) PV input:		
Max. input voltage	d.c. 600V	
MPP voltage range	d.c. 90-520V	
Max. input current	d.c. 2x11A	
Isc PV (absolute maximum)	d.c. 2x17.2A	
b) Battery input:		
Battery voltage range	d.c. 42-58V	
Max. charge/discharge current	d.c. 62.5A/62.5A (RHI-3K-48ES, RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS, RHI-3.6K-48ES, RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, RHI-4K-48ES-5G-NS, RHI-4.6K-48ES, RHI-5K-48ES, RHI-6K-48ES) d.c. 100A/100A (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)	

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Hybrid inverter with storage battery system:	
c) AC-output (grid side):	
Rated output voltage	a.c. 230V
Rated output frequency	50Hz
Rated output power	3000W (RHI-3K-48ES, RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS) 3600W (RHI-3.6K-48ES, RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, RHI-4K-48ES-5G-NS) 4600W (RHI-4.6K-48ES, RHI-4.6K-48ES-5G, RHI-4.6K-48ES-5G-NS) 5000W (RHI-5K-48ES, RHI-5K-48ES-5G, RHI-5K-48ES-5G-NS) 6000W (RHI-6K-48ES, RHI-6K-48ES-5G, RHI-6K-48ES-5G-NS)
Max. apparent output power	3300VA (RHI-3K-48ES, RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS) 4000VA (RHI-3.6K-48ES, RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, RHI-4K-48ES-5G-NS) 4600VA (RHI-4.6K-48ES, RHI-4.6K-48ES-5G, RHI-4.6K-48ES-5G-NS) 5500VA (RHI-5K-48ES, RHI-5K-48ES-5G, RHI-5K-48ES-5G-NS) 6000VA (RHI-6K-48ES, RHI-6K-48ES-5G, RHI-6K-48ES-5G-NS)
Max. output current	a.c. 15.7A (RHI-3K-48ES, RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS) a.c. 17.3A (RHI-3.6K-48ES, RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, RHI-4K-48ES-5G-NS) a.c. 23A (RHI-4.6K-48ES, RHI-4.6K-48ES-5G, RHI-4.6K-48ES-5G-NS) a.c. 23.9A (RHI-5K-48ES, RHI-5K-48ES-5G, RHI-5K-48ES-5G-NS) a.c. 26.1A (RHI-6K-48ES, RHI-6K-48ES-5G, RHI-6K-48ES-5G-NS)
Displacement factor	-0.8...1...+0.8
d) AC-output (back-up):	
Rated output voltage	a.c. 230V
Rated output frequency	50Hz
Rated output power	3000W (RHI-3K-48ES, RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS, RHI-3.6K-48ES, RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, RHI-4K-48ES-5G-NS, RHI-4.6K-48ES, RHI-5K-48ES, RHI-6K-48ES) 5000W (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)
Rated output current	a.c. 13A (RHI-3K-48ES, RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS, RHI-3.6K-48ES, RHI-3.6K-48ES-5G, RHI-3.6K-48ES-5G-NS, RHI-4K-48ES-5G-NS, RHI-4.6K-48ES, RHI-5K-48ES, RHI-6K-48ES) a.c. 22A (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)
e) AC-input	
Rated voltage	a.c. 230V
Rated output frequency	50Hz
Current (Maximum continuous)	a.c. 23.9A (RHI-3K-48ES, RHI-3.6K-48ES, RHI-4.6K-48ES, RHI-5K-48ES, RHI-6K-48ES) a.c. 26.1A (RHI-3K-48ES-5G, RHI-3K-48ES-5G-NS, 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)
f) Other parameters:	
Protection class:	I
Degree of protection:	IP65
Overvoltage category:	II (PV), III (MAINS)
Ambient temperature:	-25°C...+60°C
Firmware version	DSP1: V1F, DSP2: V00, ARM: V2F



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DISPOSITIVO DI INTERFACCIA Interface Device	PROTEZIONE DI INTERFACCIA Interface Protection Device	DISPOSITIVO DI CONVERSIONE STATICA Static Conversion Device	DISPOSITIVO DI GENERAZIONE TOTANTE Rotating Device
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Tested according to:**

CEI 0-21:2019