



Product Service

# CERTIFICATE

No. B 086470 0032 Rev. 02

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

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

**Certification Mark:**



**Product:**

**Converter  
Hybrid Inverter**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 704091623701-02

**Valid until:** 2025-08-02

**Date,** 2020-08-03

( Zhengdong Ma )

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## Model(s):

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.

## Parameters:

PV inputs:	
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
Battery:	
Battery type	Li-ion(RHI-3K-48ES, RHI-3.6K-48ES, RHI-4.6K-48ES, RHI-5K-48ES, RHI-6K-48ES),  Li-ion/Lead-acid(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)
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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AC-output (grid side):	
Rated output voltage	a.c. 220/230V
Rated output frequency	50/60Hz
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

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AC-output (back-up):	
Rated output voltage	a.c. 220/230V
Rated output frequency	50/60Hz
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)
AC-input	
Rated voltage	a.c. 220/230V
Rated output frequency	50/60Hz
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)
Protection class:	I
Degree of protection:	IP65
Overvoltage category:	II (PV), III (MAINS)
Ambient temperature:	-25°C...+60°C
Inverter topology:	Non-isolated

**Tested according to:** IEC 62109-1(ed.1)  
IEC 62109-2(ed.1)  
EN 62109-1:2010  
EN 62109-2:2011

**Production Facility(ies):** 086470