



Product Service

CERTIFICATE

No. B 086470 0032 Rev. 05

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

Test report no.: 704091623701-05

Valid until: 2027-10-17

Date, 2022-10-21

(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-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, S5-EH1P3K-L-BE, S5-EH1P3.6K-L-BE,
S5-EH1P4.6K-L-BE, S5-EH1P5K-L-BE.

Parameters:

Please see pages 3 to 7.

Tested according to:

EN 62109-1:2010
EN 62109-2:2011
IEC 62109-1:2010
IEC 62109-2:2011

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Model name	RHI-3K-48ES	RHI-3.6K-48ES	RHI-4.6K-48ES	RHI-5K-48ES
PV input parameters:				
Max. Input Voltage:	600 Vd.c.			
MPP Voltage Range:	90-520 Vd.c.			
Max. Input Current:	2×11 Ad.c.			
Isc PV:	2×17,2 Ad.c.			
Battery parameters:				
Battery Type:	Li-Ion			
Battery Voltage Range:	42-58 Vd.c.			
Max. Charge Current:	62,5 Ad.c.			
Max. Discharge Current:	62,5 Ad.c.			
AC-Output (Back-up) parameters:				
Rated Output Voltage:	220/230 Va.c.			
Rated Output Frequency:	50/60 Hz			
Rated Output Current:	13,6/13 Aa.c.			
Rated Output Power:	3000 W			
AC-Output (Grid Side) parameters:				
Rated Output Voltage:	220/230 Va.c.			
Rated Output Frequency:	50/60 Hz			
Rated Output Power:	3000 W	3600 W	4600 W	5000 W
Max. Apparent Output Power:	3300 VA	4000 VA	4600 VA	5500 VA
Max. Output Current:	15,7 Aa.c.	17,3 Aa.c.	23 Aa.c.	23,9 Aa.c.

Model name	RHI-3K-48ES	RHI-3.6K-48ES	RHI-4.6K-48ES	RHI-5K-48ES
Power Factor(adj.):	-0,8...1...+0,8			
AC input parameters:				
Rated Voltage:	220/230 Va.c.			
Current (Maximum Continuous):	23,9 Aa.c.			
Rated Frequency:	50/60 Hz			
Others:				
Operating Temperature Range:	-25 °C...+60 °C			
Protective Class:	I			
Ingress Protection:	IP65			
Overvoltage Category:	II(PV), III(MAINS)			
Inverter Topology:	Non-isolated(isolated for battery input)			

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Model name	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
PV input parameters:			
Max. Input Voltage:	600 Vd.c.		
MPP Voltage Range:	90-520 Vd.c.		
Max. Input Current:	2×11 Ad.c.		
Isc PV:	2×17,2 Ad.c.		
Battery parameters:			
Battery Type:	Li-ion / Lead-acid		
Battery Voltage Range:	42-58 Vd.c.		
Max. Charge Current:	62,5 Ad.c.		
Max. Discharge Current:	62,5 Ad.c.		
AC-Output (Back-up) parameters:			
Rated Output Voltage:	220/230 Va.c.		
Rated Output Frequency:	50/60 Hz		
Rated Output Current:	13.6/13 Aa.c.		
Rated Output Power:	3000 W		
AC-Output (Grid Side) parameters:			
Rated Output Voltage:	220/230 Va.c.		
Rated Output Frequency:	50/60 Hz		

Model name	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
Rated Output Power:	3000 W	3600 W	3600 W
Max. Apparent Output Power:	3300 VA	4000 VA	4000 VA
Max. Output Current:	15,7 Aa.c.	17,3 Aa.c.	17,3 Aa.c.
Power Factor(adj.):	-0,8...1...+0,8		
AC input parameters:			
Rated Voltage:	220/230 Va.c.		
Current (Maximum Continuous):	26,1 Aa.c.		
Rated Frequency:	50/60 Hz		
Others:			
Operating Temperature Range:	-25 °C...+60 °C		
Protective Class:	I		
Ingress Protection:	IP65		
Overvoltage Category:	II(PV), III(MAINS)		
Inverter Topology:	Non-isolated(isolated for battery input)		

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Model name	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
PV input parameters:			
Max. Input Voltage:	600 Vd.c.		
MPP Voltage Range:	90-520 Vd.c.		
Max. Input Current:	2×11 Ad.c.		
Isc PV:	2×17,2 Ad.c.		
Battery parameters:			
Battery Type:	Li-ion / Lead-acid		
Battery Voltage Range:	42-58 Vd.c.		
Max. Charge Current:	100 Ad.c.		
Max. Discharge Current:	100 Ad.c.		
AC-Output (Back-up) parameters:			
Rated Output Voltage:	220/230 Va.c.		
Rated Output Frequency:	50/60 Hz		
Rated Output Current:	22,7/22 Aa.c.		
Rated Output Power:	5000 W		
AC-Output (Grid Side) parameters:			
Rated Output Voltage:	220/230 Va.c.		
Rated Output Frequency:	50/60 Hz		

Model name	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 Power:	4600 W	5000 W	6000 W
Max. Apparent Output Power:	4600 VA	5500 VA	6600 VA
Max. Output Current:	23 Aa.c.	23,9 Aa.c.	30 Aa.c.
Power Factor(adj.):	-0,8...1...+0,8		
AC input parameters:			
Rated Voltage:	220/230 Va.c.		
Current (Maximum Continuous):	26,1 Aa.c.		
Rated Frequency:	50/60 Hz		
Others:			
Operating Temperature Range:	-25 °C...+60 °C		
Protective Class:	I		
Ingress Protection:	IP65		
Overvoltage Category:	II(PV), III(MAINS)		
Inverter Topology:	Non-isolated(isolated for battery input)		

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Model name	S5-EH1P3K-L, S5-EH1P3K-L-BE, S5- EH1P3K-L-NS	S5-EH1P3.6K-L, S5-EH1P3.6K-L-BE, S5-EH1P3.6K-L-NS, S5-EH1P4K-L-NS	S5-EH1P4.6K-L, S5-EH1P4.6K-L-BE, S5-EH1P4.6K-L-NS
PV input parameters:			
Max. Input Voltage:	600 Vd.c.		
MPP Voltage Range:	90-520 Vd.c.		
Max. Input Current:	2×15 Ad.c.		
Isc PV:	2×22,5 Ad.c.		
Battery parameters:			
Battery Type:	Li-ion / Lead-acid		
Battery Voltage Range:	42-58 Vd.c.	42-58 Vd.c.	42-58 Vd.c.
Max. Charge Current:	62,5 Ad.c.	62,5 Ad.c.	100 Ad.c.
Max. Discharge Current:	62,5 Ad.c.	62,5 Ad.c.	100 Ad.c.
AC-Output (Back-up) parameters:			
Rated Output Voltage:	220/230 Va.c.		
Rated Output Frequency:	50/60 Hz		
Rated Output Current:	14/13,5 Aa.c.	14/13,5 Aa.c.	23/22 Aa.c.
Rated Output Power:	3000 W	3000 W	5000 W
AC-Output (Grid Side) parameters:			
Rated Output Voltage:	220/230 Va.c.		
Rated Output Frequency:	50/60 Hz		

Model name	S5-EH1P3K-L, S5-EH1P3K-L-BE, S5-EH1P3K-L-NS	S5-EH1P3.6K-L, S5-EH1P3.6K-L-BE, S5- EH1P3.6K-L-NS, S5- EH1P4K-L-NS	S5-EH1P4.6K-L, S5-EH1P4.6K-L-BE, S5- EH1P4.6K-L-NS
Rated Output Power:	3000 W	3600 W	4600 W
Max. Apparent Output Power:	3300 VA	4000 VA	4600 VA
Max. Output Current:	15 Aa.c.	18,5 Aa.c.	21 Aa.c.
Power Factor(adj.):	-0,8...1...+0,8		
AC input parameters:			
Rated Voltage:	220/230 Va.c.		
Current (Maximum Continuous):	20,5 / 20 Aa.c.	25 / 23,5 Aa.c.	31,5 / 30 Aa.c.
Rated Frequency:	50/60 Hz		
Others:			
Operating Temperature Range:	-25 °C...+60 °C		
Protective Class:	I		
Ingress Protection:	IP65		
Overvoltage Category:	II(PV), III(MAINS)		
Inverter Topology:	Non-isolated(isolated for battery input)		

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No. B 086470 0032 Rev. 05

Model name	S5-EH1P5K-L, S5-EH1P5K-L-NS	S5-EH1P5K-L-BE	S5-EH1P6K-L, S5-EH1P6K-L-NS
PV input parameters:			
Max. Input Voltage:	600 Vd.c.		
MPP Voltage Range:	90-520 Vd.c.		
Max. Input Current:	2×15 Ad.c.		
Isc PV:	2×22,5 Ad.c.		
Battery parameters:			
Battery Type:	Li-ion / Lead-acid		
Battery Voltage Range:	42-58 Vd.c.		
Max. Charge Current:	100 Ad.c.		
Max. Discharge Current:	100 Ad.c.		
AC-Output (Back-up) parameters:			
Rated Output Voltage:	220/230 Va.c.		
Rated Output Frequency:	50/60 Hz		
Rated Output Current:	23/22 Aa.c.		
Rated Output Power:	5000 W		
AC-Output (Grid Side) parameters:			
Rated Output Voltage:	220/230 Va.c.		
Rated Output Frequency:	50/60 Hz		

Model name	S5-EH1P5K-L, S5-EH1P5K-L-NS	S5-EH1P5K-L-BE	S5-EH1P6K-L, S5-EH1P6K-L-NS
Rated Output Power:	5000 W		6000 W
Max. Apparent Output Power:	5500 VA	5000 VA	6600 VA
Max. Output Current:	25 Aa.c.		30 Aa.c.
Power Factor(adj.):	-0,8...1...+0,8		
AC input parameters:			
Rated Voltage:	220/230 Va.c.		
Current (Maximum Continuous):	34,5/ 33 Aa.c.		
Rated Frequency:	50/60 Hz		
Others:			
Operating Temperature Range:	-25 °C...+60 °C		
Protective Class:	I		
Ingress Protection:	IP65		
Overvoltage Category:	II(PV), III(MAINS)		
Inverter Topology:	Non-isolated(isolated for battery input)		