

Compliance Document

No. D 086470 0061 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

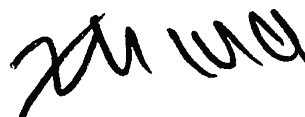
Product:

Converter
Hybrid inverter and AC coupled energy
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.: 704092008114-01

Date, 2021-06-18



(Zhengdong Ma)

Compliance Document

No. D 086470 0061 Rev. 01

Model(s):

AC coupled energy inverter: RAI-3K-48ES-5G
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-5G,
RHI-6K-48ES-5G-NS,
S5-EH1P3K-L, S5-EH1P3.6K-L, S5-
EH1P4.6K-L,
S5-EH1P5K-L, S5-EH1P6K-L
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 pieces
US3000	Pylon Technologies Co., Ltd.	1-8 pieces
FC0048M/FL4874M	Pylon Technologies Co., Ltd.	2-4 pieces
BMS firmware version	V4.6	
2) AC coupled energy inverter		
Model name:	RAI-3K-48ES-5G	
a) Battery:		
Battery Type:	Li-ion	
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	

Compliance Document

No. D 086470 0061 Rev. 01

AC coupled energy inverter with storage battery system:	
2) AC coupled energy inverter	
Model name:	RAI-3K-48ES-5G
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) General:	
Protective class:	Class I
Operation temperature range:	-25...60°C
Ingress protection:	IP65
Overvoltage-category:	II (DC), III (MAINS)

Compliance Document

No. D 086470 0061 Rev. 01

Hybrid 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 pieces		
US3000	Pylon Technologies Co., Ltd.	1-8 pieces		
FC0048M/FL4874M	Pylon Technologies Co., Ltd.	2-4 pieces		
BMS firmware version	V4.6			
2) Hybrid inverter:				
Model name	RHI-3K-48ES	RHI-3.6K-48ES	RHI-4.6K-48ES	RHI-5K-48ES
a) 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.			
b) 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.			
c) AC-Output (Back-up) parameters:				
Rated Output Voltage:	230 Va.c.			
Rated Output Frequency:	50 Hz			
Rated Output Current:	13 Aa.c.			
Rated Output Power:	3000 W			

Compliance Document

No. D 086470 0061 Rev. 01

Hybrid inverter with storage battery system:				
2) Hybrid inverter:				
Model name	RHI-3K-48ES	RHI-3.6K-48ES	RHI-4.6K-48ES	RHI-5K-48ES
d) AC-Output (Grid Side) parameters:				
Rated Output Voltage:	230 Va.c.			
Rated Output Frequency:	50 Hz			
Rated Output Power:	3000 W	3600 W	4600 W	5000 W
Max. Apparent Output Power:	3300VA	4000VA	4600VA	5500VA
Max. Output Current:	15,7 Aa.c.	17,3 Aa.c.	23 Aa.c.	23,9 Aa.c.
Power Factor(adj.):	0,8(lagging)...0,8(leading)			
e) AC input parameters:				
Rated Voltage:	230 Va.c.			
Current (Maximum Continuous):	23,9 Aa.c.			
Rated Frequency:	50 Hz			
f) General:				
Operating Temperature Range:	-25 °C...+60 °C			
Protective Class:	I			
Ingress Protection:	IP65			
Overvoltage Category:	II(PV), III(MAINS)			
Inverter Topology:	Non-isolated			

Compliance Document

No. D 086470 0061 Rev. 01

2) Hybrid inverter:			
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
a) 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.		
b) 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.		
c) AC-Output (Back-up) parameters:			
Rated Output Voltage:	230 Va.c.		
Rated Output Frequency:	50 Hz		
Rated Output Current:	13 Aa.c.		
Rated Output Power:	3000 W		
d) AC-Output (Grid Side) parameters:			
Rated Output Voltage:	230 Va.c.		
Rated Output Frequency:	50 Hz		
Rated Output Power:	3000 W	3600 W	3600 W
Max. Apparent Output Power:	3300VA	4000VA	4000VA
Max. Output Current:	15,7 Aa.c.	17,3 Aa.c.	17,3 Aa.c.
Power Factor(adj.):	0,8(lagging)...0,8(leading)		
e) AC input parameters:			
Rated Voltage:	230 Va.c.		
Current (Maximum Continuous):	26,1 Aa.c.		
Rated Frequency:	50 Hz		
f) General:			
Operating Temperature Range:	-25 °C...+60 °C		
Protective Class:	I		
Ingress Protection:	IP65		
Overvoltage Category:	II(PV), III(MAINS)		
Inverter Topology:	Non-isolated		

Compliance Document

No. D 086470 0061 Rev. 01

2) Hybrid inverter:			
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
a) 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.		
b) 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.		
c) AC-Output (Back-up) parameters:			
Rated Output Voltage:	230 Va.c.		
Rated Output Frequency:	50 Hz		
Rated Output Current:	22 Aa.c.		
Rated Output Power:	5000 W		
d) AC-Output (Grid Side) parameters:			
Rated Output Voltage:	230 Va.c.		
Rated Output Frequency:	50 Hz		
Rated Output Power:	4600 W	5000 W	6000 W
Max. Apparent Output Power:	4600VA	5500VA	6000 VA
Max. Output Current:	23 Aa.c.	23,9 Aa.c.	26,1 Aa.c.
Power Factor(adj.):	0,8(lagging)...0,8(leading)		
e) AC input parameters:			
Rated Voltage:	230 Va.c.		
Current (Maximum Continuous):	26,1 Aa.c.		
Rated Frequency:	50 Hz		
f) General:			
Operating Temperature Range:	-25 °C...+60 °C		
Protective Class:	I		
Ingress Protection:	IP65		
Overvoltage Category:	II(PV), III(MAINS)		
Inverter Topology:	Non-isolated		

Compliance Document

No. D 086470 0061 Rev. 01

2) Hybrid inverter:			
Model name	S5-EH1P3K-L	S5-EH1P3.6K-L	S5-EH1P4.6K-L
a) PV input parameters:			
Max. Input Voltage:	600 Vd.c.	600 Vd.c.	600 Vd.c.
MPP Voltage Range:	90-520 Vd.c.	90-520 Vd.c.	90-520 Vd.c.
Max. Input Current:	2×15 Ad.c.	2×15 Ad.c.	2×15 Ad.c.
Isc PV:	2×22,5 Ad.c.	2×22,5 Ad.c.	2×22,5 Ad.c.
b) Battery parameters:			
Battery Type:	Li-ion / Lead-acid	Li-ion / Lead-acid	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.
c) AC-Output (Back-up) parameters:			
Rated Output Voltage:	230 Va.c.	230 Va.c.	230 Va.c.
Rated Output Frequency:	50 Hz	50 Hz	50 Hz
Rated Output Current:	13,5 Aa.c.	13,5 Aa.c.	22 Aa.c.
Rated Output Power:	3000 W	3000 W	5000 W
d) AC-Output (Grid Side) parameters:			
Rated Output Voltage:	230 Va.c.	230 Va.c.	230 Va.c.
Rated Output Frequency:	50 Hz	50 Hz	50 Hz
Rated Output Power:	3000 W	3600 W	4600 W
Max. Apparent Output Power:	3300VA	4000VA	4600VA
Max. Output Current:	14,5 Aa.c.	17,5 Aa.c.	20 Aa.c.
Power Factor(adj.):	0,8(lagging)...0,8(leading)		
e) AC input parameters:			
Rated Voltage:	230 Va.c.		
Current (Maximum Continuous):	20,5 Aa.c.	25 Aa.c.	31,5 Aa.c.
Rated Frequency:	50 Hz		
f) General:			
Operating Temperature Range:	-25 °C...+60 °C		
Protective Class:	I		
Ingress Protection:	IP65		
Overvoltage Category:	II(PV), III(MAINS)		
Inverter Topology:	Non-isolated		

Compliance Document

No. D 086470 0061 Rev. 01

2) Hybrid inverter:		
Model name	S5-EH1P5K-L	S5-EH1P6K-L
a) 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.	
b) 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.	
c) AC-Output (Back-up) parameters:		
Rated Output Voltage:	230 Va.c.	
Rated Output Frequency:	50 Hz	
Rated Output Current:	22 Aa.c.	
Rated Output Power:	5000 W	
d) AC-Output (Grid Side) parameters:		
Rated Output Voltage:	230 Va.c.	
Rated Output Frequency:	50 Hz	
Rated Output Power:	5000 W	6000 W
Max. Apparent Output Power:	5500VA	6000 VA
Max. Output Current:	24 Aa.c.	29 Aa.c.
Power Factor(adj.):	0,8(lagging)...0,8(leading)	
e) AC input parameters:		
Rated Voltage:	230 Va.c.	
Current (Maximum Continuous):	34,5 Aa.c.	
Rated Frequency:	50 Hz	
f) General:		
Operating Temperature Range:	-25 °C...+60 °C	
Protective Class:	I	
Ingress Protection:	IP65	
Overvoltage Category:	II(PV), III(MAINS)	
Inverter Topology:	Non-isolated	

DISPOSITIVO DI INTERFACCIA Interface Device	PROTEZIONE DI INTERFACCIA Interface Protection Device	DISPOSITIVO DI CONVERSIONE STATICA Static Conversion Device	DISPOSITIVO DI GENERAZIONE TOTANTE Rotating Device
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Tested according to:

CEI 0-21:2019/V1:2020