



Ginlong technologies Co., Ltd.

No. 57 Jintong Road,
Binhai industrial Park - Xiangshan
Ningbo - Zhejiang Province, 315712 - P.R. China
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Dichiarazione di conformità alle prescrizioni della Norma CEI 0-21
Declaration of conformity to the requirements of the standard CEI 0-21

TIPOLOGIA DEL SISTEMA DI ACCUMULO CUI SI RIFERISCE LA DICHIARAZIONE:
TYPE OF STORAGE SYSTEM TO WHICH THIS DECLARATION REFERS:

DISPOSITIVO DI INTERFACCIA INTERFACE DEVICE	PROTEZIONE DI INTERFACCIA INTERFACE PROTECTION	DISPOSITIVO DI CONVERSIONE STATICA STATIC CONVERSION DEVICE	DISPOSITIVO DI GENERAZIONE ROTANTE ROTARY GENERATING DEVICE
Sì/Yes	Sì/Yes	Sì/Yes	No

COSTRUTTORE: MANUFACTURER	MODELLO DI INVERTER: INVERTER MODEL	VERSIONE FIRMWARE: FIRMWARE VERSION:	NUMERO DI FASI (monofase/trifase) NUMBER OF PHASE (single/triphas)	POTENZA NOMINALE: RATED POWER [W]	P _{sm} P _{cm} [W]
Ginlong technologies Co., Ltd. No. 57 Jintong Road Binhai industrial Park Xiangshan - Ningbo Zhejiang Province PEOPLE'S REPUBLIC OF CHINA	RHI-3K-48ES RHI-3K-48ES-5G RHI-3K-48ES-5G-NS S5-EH1P3K-L	V2F o superiore or upper	Monofase/Single	3000	3000
	RHI-3.6K-48ES RHI-3.6K-48ES-5G RHI-3.6K-48ES-5G-NS S5-EH1P3.6K-L			3600	3000
	RHI-4.6K-48ES			4600	3000
	RHI-4.6K-48ES-5G RHI-4.6K-48ES-5G-NS S5-EH1P4.6K-L				4800
	RHI-5K-48ES			5000	3000
	RHI-5K-48ES-5G RHI-5K-48ES-5G-NS S5-EH1P5K-L				4800
	RHI-6K-48ES-5G RHI-6K-48ES-5G-NS S5-EH1P6K-L			6000	4800
	RAI-3K-48ES-5G	V08 o superiore or upper		3000	3000

Gli inverter suddetti sono certificati in combinazione con una delle seguenti opzioni di Batteria al Litio:
The inverters here above listed are certified according with one of the following options of Lithium Battery:



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COSTRUTTORE: MANUFACTURER	MODELLO MODULO BATTERIA BATTERY MODUL MODEL		Capacità del sistema di accumulo (CUS) Storage system capacity (CUS) [Wh]	POTENZA DI CARICA/SCARICA NOMINALI NOMINAL CHARGING/DISCHARGING POWER Pcn/Psn (2) [W]	Numero di batterie raccomandate dal costruttore Number(s) of battery module recommended by manufacture
Pylontech	US2000/US2000C/Phantom-S		N ⁽¹⁾ X 2400	N ⁽¹⁾ x 25 x 48	n da 1 a 8 n from 1 to 8
	US3000/US3000C		N ⁽¹⁾ X 3550	N ⁽¹⁾ x 37 x 48	
	Force L2	FL4874M (Modulo/Modul)	N ⁽¹⁾ X 3550	N ⁽¹⁾ x 37 x 48	n da 2 a 4 n from 2 to 4
		FC0048M (BMS)			1 - 6
	Force L1	FL48074 (Modulo/Modul)	N ⁽¹⁾ X 3550	N ⁽¹⁾ x 37 x 48	n da 2 a n from 2 to 7
		FC048 (BMS)			1 - 6

(1) N= n. di moduli batteria – N = n. of battery modules

(2) Pcn ≤ PcMax - Psn ≤ PsMax

NOTA: Il dispositivo è in grado di limitare la I_{dc} allo 0,5% della corrente nominale.

Il dispositivo è per impianti fino a 11,08 kW

REMARK: The device is capable to limit I_{dc} to 0,5% of the rated current

The device is for installation up to 11,08 kW

Esaminati i Fascicoli Prove n° 704092103620-01, emessi dal laboratorio TÜV SÜD Certification and Testing (China) Co., Ltd con accreditamento DAkkS n. D-PL-19065-01-00.

Ai sensi degli articolo 76 del DPR 28 Dicembre 2000, n° 445, il sottoscritto Yiming Wang, in qualità di legale rappresentante di Ginlong technologies Co., Ltd. - No. 57 Jintong Road - Binhai industrial Park - Xiangshan - Ningbo - Zhejiang Province - China, dichiara che il prodotto indicato è conforme alle prescrizioni CEI 0-21: 2019-04.

Taken into account test report No. 704092103620-01 issued by test TÜV SÜD Certification and Testing (China) Co., Ltd with DAkkS accreditation No. D-PL-19065-01-00

According with the article 76 of Italian DPR 28 December 2000, n° 445, the undersigned Yiming Wang, as legal representative of Ginlong technologies Co., Ltd. - No. 57 Jintong Road - Binhai industrial Park - Xiangshan - Ningbo - Zhejiang Province - China, herewith declare that the product complies with the requirements of CEI 0-21: 2019-04

DATA 20/01/2022

DATE 20/01/2022

FIRMA LEGALE RAPPRESENTANTE
SIGNATURE LEGAL REPRESENTATIVE

Yiming Wang



Figure 6

The figure is a scatter plot with 'Days since start' on the horizontal axis (0 to 100) and 'Days since last obs.' on the vertical axis (0 to 100). There are approximately 40 data points represented by small black dots. Most points are clustered below the diagonal line y=x, indicating that observations were more frequent than the time elapsed since the start. Some points lie above the diagonal, particularly at later stages of the study.

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Compliance Document

No. D 086470 0088 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

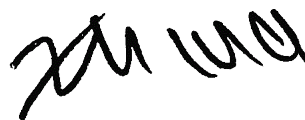
**Hybrid inverter and AC coupled energy
inverter with storage battery system**

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.:

704092103620-01

Date, 2022-01-25



(Zhengdong Ma)

Compliance Document

No. D 086470 0088 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)

Force -L1 (2-7 pieces)

Force -L2 (2-4 pieces)

US2000C (1-8 pieces)

Phantom-S (1-8 pieces)

US3000C (1-8 pieces)

Parameters:

Please see the attachment from page 3 to page 9

Tested according to:

CEI 0-21:2019/V1:2020

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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
Force -L1	Pylon Technologies Co., Ltd.	2-7 pieces
Force -L2	Pylon Technologies Co., Ltd.	2-4 pieces
US2000C	Pylon Technologies Co., Ltd.	1-8 pieces
US3000C	Pylon Technologies Co., Ltd.	1-8 pieces
Phantom-S	Pylon Technologies Co., Ltd.	1-8 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	
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)	

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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	
Force -L1		Pylon Technologies Co., Ltd.	2-7 pieces	
Force -L2		Pylon Technologies Co., Ltd.	2-4 pieces	
US2000C		Pylon Technologies Co., Ltd.	1-8 pieces	
US3000C		Pylon Technologies Co., Ltd.	1-8 pieces	
Phantom-S		Pylon Technologies Co., Ltd.	1-8 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			
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.
Model name	RHI-3K-48ES	RHI-3.6K-48ES	RHI-4.6K-48ES	RHI-5K-48ES
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			

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Model name	RHI-3K-48ES	RHI-3.6K-48ES	RHI-4.6K-48ES	RHI-5K-48ES
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			

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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		

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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	6600 VA
Max. Output Current:	23 Aa.c.	23,9 Aa.c.	30Aa.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		

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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
Model name	S5-EH1P3K-L	S5-EH1P3.6K-L	S5-EH1P4.6K-L
Rated Output Power:	3000 W	3600 W	4600 W
Max. Apparent Output Power:	3300VA	4000VA	4600VA
Max. Output Current:	15 Aa.c.	18,5 Aa.c.	21 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 0088 Rev. 01

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	6600 VA
Max. Output Current:	25 Aa.c.	30 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	