



Product Service

Compliance Document

No. D 086470 0164 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: **Energy Storage System**

**Grid-interactive 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.: 704092304883-00

Date, 2023-10-31

(Zhengdong Ma)

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Model(s):

Grid-interactive inverter: S6-EA1P3K-L, S6-EA1P3.6K-L
S6-EA1P4.6K-L, S6-EA1P5K-L,
S6-EA1P6K-L

Storage battery system: US2000 (1-8 pieces)
US3000 (1-8 pieces)
Force L1 (2-7 pieces)
Force L2 (2-4 pieces)
US2000C (1-16 pieces)
Phantom-S (1-8 pieces)
US3000C (1-16 pieces)

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Parameters:

Section A	Manufacturer	Ginlong Technologies Co., Ltd. No.57 Jintong Road, Binhai Industrial Park, Xiangshan, 315712 Ningbo, Zhejiang, PEOPLE'S REPUBLIC OF CHINA				
	Equipment type	Grid-interactive inverter with storage battery system				
	Brand	Solis				
	Number of phase	<input checked="" type="checkbox"/> Single phase <input type="checkbox"/> Three phase Frequency: 50Hz Voltage: a.c. 230V				
	Primary energy used	<input checked="" type="checkbox"/> Solar <input checked="" type="checkbox"/> Storage <input type="checkbox"/> Wind <input type="checkbox"/> Hydroelectric <input type="checkbox"/> CHP <input type="checkbox"/> Other				
	Generator model	S6-EA1P3K-L	S6-EA1P3.6K-L	S6-EA1P4.6K-L	S6-EA1P5K-L	S6-EA1P6K-L
	Rated power	3000 W / 3000 VA	3600 W / 3600 VA	4600 W / 4600 VA	5000 W / 5000 VA	6000 W / 6000 VA
	The generator:	<input type="checkbox"/> is suitable for installation in systems with an output power of more than 11.08 kW <input checked="" type="checkbox"/> is capable of limiting Idc to 0.5% of rated current: <input checked="" type="checkbox"/> uses a DC-sensitive protection function <input type="checkbox"/> uses a transformer operating at mains frequency				
Section B	Characteristics of the interface protection system					
	Manufacturer	Ginlong Technologies Co., Ltd.				
	Model	S6-EA1P3K-L, S6-EA1P3.6K-L, S6-EA1P4.6K-L, S6-EA1P5K-L, S6-EA1P6K-L				
	Type	<input checked="" type="checkbox"/> Integrated <input type="checkbox"/> Not integrated				
Section C	Characteristics of inverter(s)					
	Model of inverter	S6-EA1P3K-L	S6-EA1P3.6K-L	S6-EA1P4.6K-L	S6-EA1P5K-L	S6-EA1P6K-L
	Manufacturer of inverter	Ginlong Technologies Co., Ltd.				
	Firmware version	A1				
	Rated power of inverter (PNINV)	3000 W	3600 W	4600 W	5000 W	6000 W

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Section E					Characteristics of the Storage System (SdA)			
Representative Combination	S6-EA1PxK-L (x=3, 3.6, 4.6, 5, 6) with US2000 or US2000C or Phantom-S(1 piece)	S6-EA1PxK-L (x=3, 3.6, 4.6, 5, 6) with US2000 or US2000C or Phantom-S (2 pieces)	S6-EA1P3K-L with US2000 (3-8 pieces) or Phantom-S (3-8 pieces) or US2000C (3-16 pieces)					
Psn (nominal discharge power)	1100 W	2300 W	2850 W					
Pcn (nominal charging power)	1300 W	2750 W	3000 W					
Psmax (max. discharge power)	1100 W	2300 W	2850 W					
Pcmax (max. charging power)	1300 W	2750 W	3000 W					
Representative Combination	S6-EA1P3.6K-L with US2000 (3-8 pieces) or Phantom-S (3-8 pieces) or US2000C (3 -16 pieces)	S6-EA1PxK-L (x= 4.6, 5, 6) with US2000 or US2000C or Phantom-S (3 pieces)	S6-EA1P4.6K-L with US2000 (4-8 pieces) or Phantom-S (4-8 pieces) or US2000C (4-16 pieces)					
Psn (nominal discharge power)	3450 W	3450 W	4600 W					
Pcn (nominal charging power)	3600 W	4100 W	4600 W					
Psmax (max. discharge power)	3450 W	3450 W	4600 W					
Pcmax (max. charging power)	3600 W	4100 W	4600 W					
Representative Combination	S6-EA1P5K-L with US2000 (4-8 pieces) or Phantom-S (4-8pieces) or US2000C (4-16pieces)	S6-EA1P6K-L with US2000 or US2000C or Phantom-S (4 pieces)	S6-EA1P6K-L with US2000 (5-8 pieces) or Phantom-S (5-8 pieces) or US2000C (5-16 pieces)					

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Psn (nominal discharge power)	4700 W	4700 W	5750 W
Pcn (nominal charging power)	5000 W	5500 W	6000 W
Psmax (max. discharge power)	4700 W	4700 W	5750 W
Pcmax (max. charging power)	5000 W	5500 W	6000 W
Representative Combination	S6-EA1PxK-L (x=3, 3.6, 4.6, 5, 6) with US3000 or US3000C(1 piece)	S6-EA1P3K-L with US3000 (2-8 pieces) or US3000C (2-16 pieces)	S6-EA1P3.6K-L with US3000 (2-8 pieces) or US3000C (2-16 pieces)
Psn (nominal discharge power)	1700 W	2850 W	3450 W
Pcn (nominal charging power)	2050 W	3000 W	3600 W
Psmax (max. discharge power)	1700 W	2850 W	3450 W
Pcmax (max. charging power)	2050 W	3000 W	3600 W
Representative Combination	S6-EA1PxK-L (x= 4.6,5, 6) with US3000 or US3000C (2 pieces)	S6-EA1P4.6K-L with US3000 (3-8 pieces) or US3000C (3-16 pieces)	S6-EA1P5K-L with US3000 (3-8 pieces) or US3000C (3-16 pieces)
Psn (nominal discharge power)	3400 W	4600 W	4800 W
Pcn (nominal charging power)	4100 W	4600 W	5000 W
Psmax (max. discharge power)	3400 W	4600 W	4800 W
Pcmax (max. charging power)	4100 W	4600 W	5000 W
Representative Combination	S6-EA1P6K-L with US3000 or US3000C (3 pieces)	S6-EA1P6K-L with US3000 (4-8 pieces) or US3000C (4-16 pieces)	S6-EA1PxK-L (x=3, 3.6, 4.6, 5, 6) with Force L1 or Force L2 (2 pieces)
Psn (nominal discharge power)	5150 W	5750 W	1350 W

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P _{cn} (nominal charging power)	6000 W	6000 W	1650 W
P _{smax} (max. discharge power)	5150 W	5750 W	1350 W
P _{cmax} (max. charging power)	6000 W	6000 W	1650 W
Representative Combination	S6-EA1PxK-L (x=3, 3.6, 4.6, 5, 6) with Force L1 or Force L2 (3 pieces)	S6-EA1P3K-L with Force L1 (4-7 pieces) or Force L2 (4 pieces)	S6-EA1PxK-L (x=3.6, 4.6, 5, 6) with Force L1 or Force L2 (4 pieces)
P _{sn} (nominal discharge power)	2050 W	2800 W	2800 W
P _{cn} (nominal charging power)	2450 W	3000 W	3300 W
P _{smax} (max. discharge power)	2050 W	2800 W	2800 W
P _{cmax} (max. charging power)	2450 W	3000 W	3300 W
Representative Combination	S6-EA1P3.6K-L with Force L1 (5-7 pieces)	S6-EA1PxK-L (x=4.6, 5, 6) with Force L1 (5 pieces)	S6-EA1P4.6K-L with Force L1 (6 pieces)
P _{sn} (nominal discharge power)	3450 W	3450 W	4100 W
P _{cn} (nominal charging power)	3600 W	4100 W	4600 W
P _{smax} (max. discharge power)	3450 W	3450 W	4100 W
P _{cmax} (max. charging power)	3600 W	4100 W	4600 W
Representative Combination	S6-EA1P4.6K-L with Force L1 (7 pieces)	S6-EA1PxK-L (x= 5, 6) with Force L1 (6 pieces)	S6-EA1P5K-L with Force L1 (7 pieces)

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Psn (nominal discharge power)	4600 W	4100 W	4800 W
Pcn (nominal charging power)	4600 W	5000 W	5000 W
Psmax (max. discharge power)	4600 W	4100 W	4800 W
Pcmax (max. charging power)	4600 W	5000 W	5000 W
Representative Combination	S6-EA1P6K-L with Force L1 (7 pieces)	-	-
Psn (nominal discharge power)	4800 W	-	-
Pcn (nominal charging power)	5750 W	-	-
Psmax (max. discharge power)	4600 W	-	-
Pcmax (max. charging power)	5750 W	-	-
Type	<input checked="" type="checkbox"/> Bidirectional <input type="checkbox"/> Monodirectional		
Batteries that can be used with the above static converters			
Brand	Pylon		
Technology	Li-Ion		
Models	US2000 or US2000C or Phantom-S	US3000 or US 3000C or Force L1 or Force L2	
CUS module (kWh)	2.40	3.55	
Models	US2000 or US3000 or Phantom	US2000C or US3000C	Force L1 or Force L2
BMS firmware version	V3.4	V2.9	V1.7
Number of modules	1-8 pieces	1-16 pieces	2-7 pieces (Force L1) 2-4 pieces (Force L2)
Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with Pylon instruction.		

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Section I	References of the laboratories that performed the tests and their test reports (RdP)		
	Selected method	<input checked="" type="checkbox"/> Tests performed under the supervision of a certification body	<input checked="" type="checkbox"/> Tests performed by an accredited laboratory
	Test Reports (RdP)	1) Test report according to Annex A & Bbis: 704092304803-00; 704092304883-00	2) Test report EMC: a) CN22QYJM 002 b) J23-296-WT
	Issued by	Testing lab: 1) Ginlong Technologies Co., Ltd. Tests performed under supervision of certifier from TÜV SÜD Product Service GmbH	-a) TÜV Rheinland (Shanghai) Co., Ltd. -b) Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.
	Accreditation No.	D-ZE-11321-01-00	-a) CNAS L3038 -b) CNAS L0130
	Accreditation body ref.	DAKKS	CNAS
Section M	Reference of the certification body		
	Certification Body	TÜV SÜD Product Service GmbH DAKKS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013	

Tested according to:

CEI 0-21:2022/V1:2022