



Product Service

Compliance Document

No. D 086470 0224 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**
Hybrid inverter with storage battery system**Model(s):** Hybrid inverter:
S6-EH3P12K-H, S6-EH3P15K-H, S6-EH3P20K-H**Storage battery system:**
Force-H1-48/144-V2, Force-H1-48/192-V2, Force-H1-48/240-V2,
Force-H1-48/288-V2, Force-H1-48/336-V2, 1~4 groups**Storage battery system:**
HVS 5.1, HVS 7.7, HVS 10.2, HVS 12.8, 1~4 groups**Parameters:** See next pages.**Tested according to:** CEI 0-16:2022/V3:2024

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.: 704092304891-00**Date,** 2024-10-21

(Zhengdong Ma)



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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	Hybrid inverter with storage battery system		
	Brand	Solis		
	Number of phase	<input type="checkbox"/> Single phase <input checked="" type="checkbox"/> Three phase Frequency: 50Hz Voltage: a.c. 400V		
	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-EH3P12K-H	S6-EH3P15K-H	S6-EH3P20K-H
	Rated power	12000 W / 12000 VA	15000 W / 15000 VA	20000 W / 20000 VA
	The generator:	<input checked="" type="checkbox"/> is suitable for installation in plants with a power output of less than or equal to 400 kW <input type="checkbox"/> is suitable for installation in plants with a power exceeding 400 kW		
Section B	Characteristics of the interface protection system			
	Manufacturer	Ginlong Technologies Co., Ltd.		
	Model	S6-EH3P12K-H, S6-EH3P15K-H, S6-EH3P20K-H		
	Type	<input type="checkbox"/> Integrated <input checked="" type="checkbox"/> Not integrated		
Section C	Characteristics of inverter(s)			
	Model of inverter	S6-EH3P12K-H	S6-EH3P15K-H	S6-EH3P20K-H
	Manufacturer of inverter	Ginlong Technologies Co., Ltd.		
	Firmware version	A2	A2	A2
	Rated power of inverter (P _{NINV})	12000 W	15000 W	20000 W
Section D	Characteristics of the Storage System (SdA)			
	Model	S6-EH3PXX-H with Force-H1-48/144-V2 (1 group), X=12,15,20	S6-EH3PXX-H with Force-H1-48/192-V2 (1 group), X=12,15,20	S6-EH3PXX-H with Force-H1-48/240-V2 (1 group), X=12,15,20
	P _{sn} (nominal discharge power)	5000 W	6700 W	8400 W
	P _{cn} (nominal charging power)	6100 W	7600 W	9500 W
	P _{smax} (max. discharge power)	5000 W	6700 W	8400 W
	P _{cmx} (max. charging power)	6100 W	6700 W	9500 W
	Model	S6-EH3PXX-H with Force-H1-48/288-V2 (1 group), X=12,15,20	S6-EH3P12K-H with Force-H1-48/336-V2 (1 group)	S6-EH3PXX-H with Force-H1-48/336-V2 (1 group), X=15, 20
	P _{sn} (nominal discharge power)	10100 W	11800 W	11800 W
	P _{cn} (nominal	11300 W	12000 W	13200 W



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charging power)			
P _{smax} (max. discharge power)	10100 W	11800 W	11800 W
P _{cmax} (max. charging power)	11300 W	12000 W	13200 W
Model	S6-EH3P XK-H with Force-H1-48/144-V2 (2~4 groups), X=12,15,20	S6-EH3P XK-H with Force-H1-48/192-V2 (2~4 groups), X=12,15,20	S6-EH3P12K-H with Force-H1-48/240-V2 (2~4 groups)
P _{sn} (nominal discharge power)	6800 W	9100 W	11400 W
P _{cn} (nominal charging power)	7700 W	10200 W	12000 W
P _{smax} (max. discharge power)	6800 W	9100 W	11400 W
P _{cmax} (max. charging power)	7700 W	10200 W	12000 W
Model	S6-EH3P XK-H with Force-H1-48/240-V2 (2~4 groups) X=15,20	S6-EH3P12K-H with Force-H1-48/288-V2(2-4 groups), or Force-H1-48/336-V2 (2~4 groups)	S6-EH3P15K-H with Force-H1-48/288-V2 (2~4 groups)
P _{sn} (nominal discharge power)	11400 W	12000 W	13700 W
P _{cn} (nominal charging power)	12700 W	12000 W	15000 W
P _{smax} (max. discharge power)	11400 W	12000 W	13700 W
P _{cmax} (max. charging power)	12700 W	12000 W	15000 W
Model	S6-EH3P20K-H with Force-H1-48/288-V2 (2~4 groups)	S6-EH3P15K-H with Force-H1-48/336-V2 (2~4 groups)	S6-EH3P20K-H with Force-H1-48/336-V2 (2~4 groups)
P _{sn} (nominal discharge power)	13700 W	15000 W	16000 W
P _{cn} (nominal charging power)	15200 W	15000 W	17800 W
P _{smax} (max. discharge power)	13700 W	15000 W	16000 W
P _{cmax} (max. charging power)	15200 W	15000 W	17800 W
Model	S6-EH3P XK-H with HVS 5.1 (1 group), X=12,15,20	S6-EH3P XK-H with HVS 7.7 (1 group), X=12,15,20	S6-EH3P XK-H with HVS 10.2 (1 group), X=12,15,20
P _{sn} (nominal discharge power)	4800 W	7200 W	9580 W
P _{cn} (nominal charging power)	5400 W	8090 W	10790 W



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Psmax (max. discharge power)	4800 W	7200 W	9580 W
Pcmax (max. charging power)	5400 W	8090 W	10790 W
Model	S6-EH3P12K-H with HVS 12.8 (1 group),	S6-EH3PXK-H with HVS 12.8(1 group), X=15,20	S6-EH3PXK-H with HVS 5.1 (2-4 group), X=12,15,20
Psn (nominal discharge power)	11990 W	11990 W	9590 W
Pcn (nominal charging power)	12000 W	13400 W	10790 W
Psmax (max. discharge power)	11990 W	11990 W	9590 W
Pcmax (max. charging power)	12000 W	13400 W	10790 W
Model	S6-EH3P12K-H with HVS 7.7 (2-4 group)	S6-EH3P15K-H with HVS 7.7 (2-4 group)	S6-EH3P20K-H with HVS 7.7 (2-4 group)
Psn (nominal discharge power)	12000 W	14360 W	14360 W
Pcn (nominal charging power)	12000 W	15000 W	16100 W
Psmax (max. discharge power)	12000 W	14360 W	14360 W
Pcmax (max. charging power)	12000 W	15000 W	16100 W
Model	S6-EH3P12K-H with HVS 10.2 (2-4 group)	S6-EH3P15K-H with HVS 10.2 (2-4 group)	S6-EH3P20K-H with HVS 10.2 (2-4 group)
Psn (nominal discharge power)	12000 W	15000 W	19180 W
Pcn (nominal charging power)	12000 W	15000 W	20000 W
Psmax (max. discharge power)	12000 W	15000 W	19180 W
Pcmax (max. charging power)	12000 W	15000 W	20000 W
Model	S6-EH3P12K-H with HVS 12.8 (2-4 group)	S6-EH3P15K-H with HVS 12.8 (2-4 group)	S6-EH3P20K-H with HVS 12.8 (2-4 group)
Psn (nominal discharge power)	12000 W	15000 W	20000 W
Pcn (nominal charging power)	12000 W	15000 W	20000 W
Psmax (max. discharge power)	12000 W	15000 W	20000 W
Pcmax (max. charging power)	12000 W	15000 W	20000 W
Type	<input checked="" type="checkbox"/> Bidirectional <input type="checkbox"/> Monodirectional		
Batteries that can be used with the above inverters			



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	Brand	Shenzhen BYD Electronics Co., Ltd.		
	Technology	Li-Ion		
	Models	HVS 5.1	HVS 7.7	HVS 10.2
	CUS module (kWh)	5.12	7.68	10.24
	BMS firmware version	3.3	3.3	3.3
	Models	HVS 12.8	-	-
	CUS module (kWh)	12.8	-	-
	BMS firmware version	3.3	-	-
	Brand	Pylon Technologies Co., Ltd.		
	Technology	Li-Ion		
	Models	Force-H1-48/144-V2	Force-H1-48/192-V2	Force-H1-48/240-V2
	CUS module (kWh)	10.65 kWh	14.20 kWh	17.76 kWh
	BMS firmware version	V1.8	V1.8	V1.8
	Number of modules	1~4 groups		
	Models	Force-H1-48/288-V2	Force-H1-48/336-V2	-
CUS module (kWh)	21.31 kWh	24.86 kWh	-	
BMS firmware version	V1.8	V1.8	-	
Number of modules	1~4 groups			
Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with instruction.			
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		
	Test Reports (RdP)	1) Test report according to Annex Nbis: 704092304891-00		
	Issued by	Testing lab: 1) Manufacturer's laboratory Tests performed under supervision of certifier from TÜV SÜD Product Service GmbH		
	Accreditation No.	D-ZE-11321-01-00		
	Accreditation body reference.	DAKKS		
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		