

Certificate of Conformity

No. ESY 086470 0225 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

Model(s):

S6-EH1P3K-L-PLUS, S6-EH1P3.6K-L-PLUS, S6-EH1P4.6K-L-PLUS, S6-EH1P5K-L-PLUS, S6-EH1P6K-L-PLUS, S6-EH1P8K-L-PLUS, S6-EH1P3K-L-PLUS(21A), S6-EH1P3.6K-L-PLUS(21A), S6-EH1P4.6K-L-PLUS(21A), S6-EH1P5K-L-PLUS(21A), S6-EH1P6K-L-PLUS(21A), S6-EH1P8K-L-PLUS(21A), S6-EH1P9K-L-PLUS(21A), S6-EH1P10K-L-PLUS(21A).

Parameters:

See next pages.

Applicable standards:

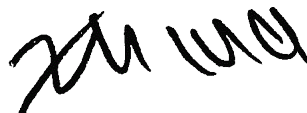
EN 50549-1:2019
EN 50549-10:2022

This Certificate of Conformity confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: www.tuvsud.com/ps-cert

Test report no.:

7040924037115-01

Date, 2025-08-07



(Zhengdong Ma)

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Models	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P4.6K-L-PLUS
PV-Input:			
Max. input voltage	DC 500 V		
Mppt voltage range	DC 90 V, ..., 435 V		
Max. input current	AC 16/16 A	AC 16/16 A	AC 16/16 A
Isc PV (absolute maximum)	AC 20/20 A	AC 20/20 A	AC 20/20 A
Battery Input / Output:			
Battery Type	Li-ion/Lead-acid		
Battery Voltage range	DC 40, ..., 60 V		
Max. Charge / discharge current	DC 70 A/ 70 A	DC 80 A/ 80 A	DC 105 A/ 105 A
AC-Output (Grid side):			
Rated output voltage	1/N/PE AC 230 V		
Rated output frequency	50 Hz		
Max. /Rated apparent output power	3000 VA	3600 VA	4600 VA
Max. /Rated output current	AC 13.1 A	AC 15.7 A	AC 20 A
Power factor range	-0.8, ..., 1, ..., +0.8		

Models	S6-EH1P5K-L-PLUS	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS
PV-Input:			
Max. input voltage	DC 500 V		
Mppt voltage range	DC 90 V, ..., 435 V		
Max. input current	AC 16/16 A	AC 16/16 A	AC 32/32 A
Isc PV (absolute maximum)	AC 20/20 A	AC 20/20 A	AC 40/40 A
Battery Input / Output:			
Battery Type	Li-ion/Lead-acid		
Battery Voltage range	DC 40, ..., 60 V		
Max. Charge / discharge current	DC 112 A/ 112 A	DC 135 A/ 135 A	DC 190 A/ 190 A
AC-Output (Grid side):			
Rated output voltage	1/N/PE AC 230 V		
Rated output frequency	50 Hz		
Max. /Rated apparent output power	5000 VA	6000 VA	8000 VA
Max. /Rated output current	AC 21.8 A	AC 26.1 A	AC 34.8 A
Power factor range	-0.8, ..., 1, ..., +0.8		

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Models	S6-EH1P3K-L-PLUS(21A)	S6-EH1P3.6K-L-PLUS(21A)	S6-EH1P4.6K-L-PLUS(21A)
PV-Input:			
Max. input voltage	DC 500 V		
Mpppt voltage range	DC 90 V, ..., 435 V		
Max. input current	AC 21/21 A		
Isc PV (absolute maximum)	AC 24/24 A		
Battery Input / Output:			
Battery Type	Li-ion/Lead-acid		
Battery Voltage range	DC 40, ..., 60 V		
Max. Charge / discharge current	DC 70 A/ 70 A	DC 80 A/ 80 A	DC 105 A/ 105 A
AC-Output (Grid side):			
Rated output voltage	1/N/PE AC 230 V		
Rated output frequency	50 Hz		
Max. /Rated apparent output power	3000 VA	3600 VA	4600 VA
Max. /Rated output current	AC 13.1 A	AC 15.7 A	AC 20 A
Power factor range	-0.8, ..., 1, ..., +0.8		

Models	S6-EH1P5K-L-PLUS(21A)	S6-EH1P6K-L-PLUS(21A)	S6-EH1P8K-L-PLUS(21A)
PV-Input:			
Max. input voltage	DC 500 V		
Mppt voltage range	DC 90 V, ..., 435 V		
Max. input current	AC 21/21 A		AC 42/42 A
Isc PV (absolute maximum)	AC 24/24 A		AC 48/48 A
Battery Input / Output:			
Battery Type	Li-ion/Lead-acid		
Battery Voltage range	DC 40, ..., 60 V		
Max. Charge / discharge current	DC 112 A/ 112 A	DC 135 A/ 135 A	DC 190 A/ 190 A
AC-Output (Grid side):			
Rated output voltage	1/N/PE AC 230 V		
Rated output frequency	50 Hz		
Max. /Rated apparent output power	5000 VA	6000 VA	8000 VA
Max. /Rated output current	AC 21.8 A	AC 26.1 A	AC 34.8 A
Power factor range	-0.8, ..., 1, ..., +0.8		

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Models	S6-EH1P9K-L-PLUS(21A)	S6-EH1P10K-L-PLUS(21A)
PV-Input:		
Max. input voltage	DC 500 V	
Mppt voltage range	DC 90 V, ..., 435 V	
Max. input current	AC 42/42 A	
Isc PV (absolute maximum)	AC 48/48 A	
Battery Input / Output:		
Battery Type	Li-ion/Lead-acid	
Battery Voltage range	DC 40, ..., 60 V	
Max. Charge / discharge current	DC 200 A/ 200 A	DC 210 A/ 210 A
AC-Output (Grid side):		
Rated output voltage	1/N/PE AC 230 V	
Rated output frequency	50 Hz	
Max. /Rated apparent output power	9000 VA	10000 VA
Max. /Rated output current	AC 39.1A	AC 43.5A
Power factor range	-0.8, ..., 1, ..., +0.8	

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Evaluated protection function and operational capabilities

Clause(s) / subclause(s) of EN 50549-1:2019	Applicable clause(s) / subclause (s) of this document	Remarks, optional modes and constraints	Verdict
4.4.2 Operating frequency range	5.2.1 Frequency operating range	--	Pass
4.4.3 Minimal requirement for active power delivery at underfrequency	5.2.1 Frequency operating range	--	Pass
4.4.4 Continuous operating voltage range	5.2.2 Voltage operating range	--	Pass
4.5.2 Rate of change of frequency (ROCOF) immunity	5.3.1 Immunity to disturbances – Rated of change of frequency (ROCOF)	--	Pass
4.5.3.2 Generating plant with non-synchronous generating technology	5.3.3 Immunity to disturbances - Fault ride through, over-voltage (OVRT) and under-voltage (UVRT)	--	Pass
4.5.4 Over-voltage ride through (OVRT)	5.3.3 Immunity to disturbances - Fault ride through, over-voltage (OVRT) and under-voltage (UVRT)	--	Pass
4.6.1 Power response to overfrequency	5.4 Active response to frequency deviation	--	Pass
4.6.2 Power response to underfrequency	5.4 Active response to frequency deviation	--	Pass
4.7.2.2 Voltage support by reactive power, Capabilities	5.5.1 Power capabilities assessment	--	Pass
4.7.2.3 Voltage support by reactive power, Control modes	5.5.2 Voltage support by reactive power - test to determine the reactive power control modes	Q setp. Q(U) Cos ϕ setp. Cos ϕ (P)	Pass
4.7.2.3.2 Set point control modes	5.5.2.3 Verification procedure for set point control	Q setp. Cos ϕ setp.	Pass
4.7.2.3.3 Voltage related control modes	5.5.2.5 Verification procedure for power related control modes for reactive power	Q(U)	Pass
4.7.2.3.4 Power related control mode	5.5.2.5 Verification procedure for power related control modes for reactive power	Cos ϕ (P)	Pass
4.7.3 Voltage related active power reduction	5.6 Voltage related active power reduction - P(U)	P(U)	Pass
4.7.4.2.2 Zero current mode for converter connected generating technology	5.3.3 Immunity to disturbances - Fault ride through, over-voltage (OVRT) and under-voltage (UVRT)	--	Pass
4.9.3 Requirements on voltage and frequency protection	5.8.3 Verification procedure for generating plants to be connected to a LV distribution network with Interface protection as internal device	--	Pass

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4.9.4 Means to detect island situation	5.8.6 Islanding detection	Active methods tested with a resonant circuit according to EN 62116	Pass
4.10.2 Automatic reconnection after tripping	5.9.3 Automatic reconnection after tripping	--	Pass
4.10.3 Starting to generate electrical power	5.9.4 Starting to generate electrical power	--	Pass
4.11.1 Ceasing active power	5.10 Active power reduction on set point	--	Pass
4.11.2 Reduction of active power on set point	5.10 Active power reduction on set point	--	Pass
4.12 Remote information exchange	5.11 Remote information exchange	Standardized communication protocol not provided by manufacturer	N/A
4.13 single fault tolerance of interface protection system and interface switch	5.12 Requirements regarding single fault tolerance of interface protection system and interface switch	--	Pass

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Evaluated parameter and parameter range

Specific technical requirement (e.g. grid codes)		EN 50549-1:2019		
Clause(s) / subclause(s) of EN 50549-1:2019	Parameter	Remarks/ additional information	Configurable value range	Default value
4.4.2 Operating frequency range	47.0 – 47.5 Hz Duration	--	0 – 20 s	Unlimited with protection setting only
	47.5 – 48.5 Hz Duration	--	30 – 90 min	Unlimited with protection setting only
	48.5 – 49.0 Hz Duration	--	30 – 90 min	Unlimited
	49.0 – 51.0 Hz Duration	--	not configurable	Unlimited
	51.0 – 51.5 Hz Duration	--	30 – 90 min	Unlimited with protection setting only
	51.5 – 52 Hz Duration	--	0 – 15 min	Unlimited with protection setting only
4.4.3 Minimal requirement for active power delivery at underfrequency	Reduction threshold	--	not configurable	No reduction
	Maximum reduction rate	--	not configurable	N/A
4.4.4 Continuous operating voltage range	Upper limit	--	not configurable	110% U _n
	Lower limit	--	not configurable	85% U _n
4.5.2 Rate of change of frequency (ROCOF) immunity	ROCOF withstand capability (defined with a sliding measurement window of 500 ms)	--	not configurable	2 Hz/s
4.5.3.2 Under-voltage ride through (UVRT) Generating plant with non-synchronous generating technology	Maximum power resumption time	--	not configurable	1 s
	Voltage-Time-Diagram	--	See figure 6 default requirement curve of EN 50549-1:2019	Time [s] U [p.u.]
				0.0 0.2
				0.15 0.2
4.5.4 Over-voltage ride through (OVRT)	Voltage-Time-Diagram	--	not configurable See figure 8 of EN 50549-1:2019	1.5 0.85
				Time [s] U [p.u.]
				0.0 1.25
				0.1 1.25
				0.1 1.20
				5.0 1.20
				5.0 1.15
				60 1.15
				60 1.10
4.6.1 Power response to overfrequency	Threshold frequency f ₁	--	50.2 Hz – 52 Hz	50.2 Hz

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	Droop	--	2 % – 12 %	5 %
	Power reference	--	P_M P_{max}	P_{max} for ESS
	Intentional delay	--	0 – 2 s	0s
	Deactivation threshold f_{stop}	--	50.0 Hz – f_1	deactivated
	Deactivation time t_{stop}	--	0 – 600 s	-
	Acceptance of staged disconnection	--	yes no	No
4.6.2 Power response to underfrequency	Threshold frequency f_1	--	49.8 Hz – 46 Hz	49.8 Hz
	Droop	--	2 – 12 %	5 %
	Power reference	--	P_M P_{max}	P_{max}
	Intentional delay	--	0 – 2 s	0 s
4.7.2.2 Voltage support by reactive power - Capabilities	Active factor / Reactive power (%Pd) range overexcited	--	0.8 – 1 / 60 % P_D – 0	0.9 – 1 / 48.4 % P_D – 0
	Active factor / Reactive power (%Pd) range underexcited	--	0.8 – 1 / 60 % P_D – 0	0.9 – 1 / 48.4 % P_D – 0
4.7.2.3 Voltage support by reactive power - Control modes	Enabled control mode	--	Q setp. Q(U) Cos φ setp. Cos φ (P)	Q setp.
4.7.2.3.2 Voltage support by reactive power - Setpoint control modes	Q setpoint and excitation	--	0 – 60 % P_D	0
	cos φ setpoint and excitation	--	1 – 0.8	1
4.7.2.3.3 Voltage support by reactive power - Voltage related control modes	Characteristic curve – Q (U)	--	--	Indicate default characteristic
	Point a	--	50%Un – 100%Un	93 %Un
	Point b	--	50%Un – 100%Un	94 %Un
	Point c	--	100%Un – 120%Un	106%Un
	Point d	--	100%Un – 120%Un	108 %Un
	Min. reactive power	--	0 – 60 %Pd ($Q_{max\ under}$)	48.4 %Pd
	Max. reactive power	--	0 – 60 %Pd ($Q_{max\ over}$)	48.4 %Pd
	Time constant	--	3 s – 60 s	3.0 s
	Min cos φ	--	0.0 – 1	0.4
	Lock in power	--	0 % – 20 %	20%
	Lock out power	--	0 % – 20 %	5%
4.7.2.3.4 Voltage support by reactive power - Power related control mode	Characteristic curve – Cos φ (P)	--	--	Indicate default characteristic
	Point a	--	0 – 100%Pn/ PF:-0.8, ..., +0.8	15%Pn/ PF=0.8
	Point b	--	0 – 100%Pn/ PF:-0.8, ..., +0.8	20%Pn/ PF=1
	Point c	--	0 – 100%Pn/ PF:-0.8, ..., +0.8	80%Pn/ PF=1

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	Point d	--	0 – 100%Pn/ PF:-0.8, ..., +0.8	90%Pn/ PF=-0.9
	Cos φ	--	0.8 – 1	0.8
	Time constant	--	3 s – 60 s	3.33 s
	Lock in voltage	--	105 %Un	deactivated
	Lock out voltage	--	100 %Un	deactivated
	4.7.3 Voltage related active power reduction	Characteristic curve - P (U)	--	Indicate default characteristic
	Point a	--	0 – 100%Pn/ U:0 V, ..., 264.5 V	100%Pn/ U=207 V
	Point b	--	0 – 100%Pn/ U:0 V, ..., 264.5 V	100%Pn/ U=230 V
	Point c	--	0 – 100%Pn/ U:0 V, ..., 264.5 V	100%Pn/ U=253 V
	Point d	--	0 – 100%Pn/ U:0 V, ..., 264.5 V	5%Pn/ U=257.6 V
	Time constant	--	3 s – 60 s	3.33 s
	4.7.4.2.2 Zero current mode for converter connected generating technology	Enabling	--	enable disable disabled
		Static voltage range overvoltage	--	100 %Un – 120 %Un 120 %Un
		Static voltage range undervoltage	--	20 %Un – 100 %Un 50 %Un
	4.9.3 Requirements on voltage and frequency protection	Threshold for protection as dedicated device [in A or kW. kVA]	--	16 A – 250 kVA Not specified, inverter integrated as default
		Undervoltage threshold stage 1	--	0.2 Un – 1 Un 0.85Un
		Undervoltage operate time stage 1	--	0.1 s – 100 s 100 s
		Undervoltage threshold stage 2	--	0.2 Un – 1 Un 0.5Un
		Undervoltage operate time stage 2	--	0.1 s – 5 s 5 s
		Overvoltage threshold stage 1	--	1.0 Un – 1.2 Un 1.2Un
		Overvoltage operate time stage 1	--	0.1 s – 100 s 100 s
		Overvoltage threshold stage 2	--	1.0 Un – 1.3 Un 1.3Un
		Overvoltage operate time stage 2	--	0.1 s – 5 s 5 s
		Overvoltage threshold 10 min mean protection	--	1.0 Un – 1.15 Un 1.1Un

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	Underfrequency threshold stage 1	--	47.0 Hz – 50.0 Hz	47.5 Hz
	Underfrequency operate time stage 1	--	0.1 s – 100 s	100 s
	Underfrequency threshold stage 2	--	47.0 Hz – 50.0 Hz	47 Hz
	Underfrequency operate time stage 2	--	0.1 s – 5 s	5 s
	Overfrequency threshold stage 1	--	50.0 Hz – 52.0 Hz	51.5 Hz
	Overfrequency operate time stage 1	--	0.1 s – 100 s	100 s
	Overfrequency threshold stage 2	--	50.0 Hz – 52.0 Hz	52 Hz
	Overfrequency operate time stage 2	--	0.1 s – 5 s	5 s
4.10.2 Automatic reconnection after tripping	Lower frequency	--	47.0 Hz – 50.0 Hz	49.5 Hz
	Upper frequency	--	50.0 Hz – 52.0 Hz	50.2 Hz
	Lower voltage	--	50 %U _n – 100 %U _n	85 %U _n
	Upper voltage	--	100 %U _n – 120 %U _n	110 %U _n
	Observation time	--	10 s – 600 s	60 s
	Active power increase gradient	--	5% – 3000%/min	10 %/min
4.10.3 Starting to generate electrical power	Lower frequency	--	47.0 Hz – 50.0 Hz	49.5 Hz
	Upper frequency	--	50.0 Hz – 52.0 Hz	50.1 Hz
	Lower voltage	--	50 %U _n – 100 %U _n	85 %U _n
	Upper voltage	--	100 %U _n – 120 %U _n	110 %U _n
	Observation time	--	10 s – 600 s	60 s
	Active power increase gradient	--	5% – 3000 %/min	disabled
4.11.1 Ceasing active power	Activation option	--	Can be achieved by Modbus communication protocol, APP or Solis cloud, acceptance should be made by the DSO and responsible party	
4.11.2 Reduction of active power on set point	Activation option	--	Can be achieved by Modbus communication protocol, APP or Solis cloud, acceptance should be made by the DSO and responsible party	
4.12 Remote information exchange	Available communication standards	--	Standardized communication protocol not provided by manufacturer	



Product Service

Attestation of Conformity

No. N8A 086470 0158 Rev. 03**Holder of Attestation:** **Ginlong Technologies Co., Ltd.**

No.57 Jintong Road
Binhai Industrial Park, Xiangshan
315712 Ningbo, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter****Hybrid Inverter****Model(s):**

S6-EH1P3K-L-PLUS, S6-EH1P3.6K-L-PLUS, S6-EH1P4.6K-L-PLUS,
S6-EH1P5K-L-PLUS, S6-EH1P6K-L-PLUS, S6-EH1P8K-L-PLUS,
S6-EH1P8K-L-PLUS-IT, S6-EH1P3K-L-PLUS(21A),
S6-EH1P3.6K-L-PLUS(21A), S6-EH1P4.6K-L-PLUS(21A),
S6-EH1P5K-L-PLUS(21A), S6-EH1P6K-L-PLUS(21A),
S6-EH1P8K-L-PLUS(21A), S6-EH1P9K-L-PLUS(21A),
S6-EH1P9.9K-L-PLUS(21A), S6-EH1P10K-L-PLUS(21A)

Parameters: See next pages**Tested
according to:** EN 62109-1:2010
EN 62109-2:2011

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for conformity assessment. For details see: www.tuvsud.com/ps-cert

Test report no.: 50409230013198-03**Date,** 2025-07-29

(Zhengdong Ma)

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This Attestation does not replace the regulatory EU Declaration of Conformity (DoC) and does not allow for CE marking. After preparation of the necessary documentation and establishing compliance to requirements of all applicable directives, the manufacturer may sign a DoC and apply the CE marking. The DoC is issued under the sole responsibility of the manufacturer.



Product Service

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Model	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P5K-L-PLUS
PV input			
Max. input voltage	500 Vd.c.	500 Vd.c.	500 Vd.c.
MPPT voltage range	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.
Max. input current	2x16 Ad.c.	2x16 Ad.c.	2x16 Ad.c.
Isc PV (absolute maximum)	2x20 Ad.c.	2x20 Ad.c.	2x20 Ad.c.
Battery input			
Battery type	Li-ion/Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.
Max. charge current	70 Ad.c.	80 Ad.c.	112 Ad.c.
Max. discharge current	70 Ad.c.	80 Ad.c.	112 Ad.c.
AC output (Back-up)			
Max. (rated) output power	3000 W	3600 W	5000 W
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.		
Nominal frequency	50/60 Hz		
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.
AC output (Grid side)			
Max. (rated) apparent output power	3000 VA	3600 VA	5000 VA
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.		
Nominal frequency	50/60 Hz		
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.
AC input			
Nominal voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.		
Max. (rated) continuous current	21 Aa.c.@ 220 Va.c. 20 Aa.c.@ 230 Va.c.	25 Aa.c.@ 220 Va.c. 24 Aa.c.@ 230 Va.c.	32 Aa.c.@ 220 Va.c. 31 Aa.c.@ 230 Va.c.
Nominal frequency	50/60 Hz		
General parameters			
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40°C, ..., +60 °C		

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Product Service

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Model	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS	S6-EH1P4.6K-L-PLUS	S6-EH1P8K-L-PLUS-IT
PV input				
Max. input voltage	500 Vd.c.	500 Vd.c.	500 Vd.c.	500 Vd.c.
MPPT voltage range	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.
Max. input current	2x16 Ad.c.	2x32 Ad.c.	2x16 Ad.c.	2x32 Ad.c.
Isc PV (absolute maximum)	2x20 Ad.c.	2x40 Ad.c.	2x20 Ad.c.	2x40 Ad.c.
Battery input				
Battery type	Li-ion/Lead-acid			
Battery voltage range	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.
Max. charge current	135 Ad.c.	190 Ad.c.	105 Ad.c.	190 Ad.c.
Max. discharge current	135 Ad.c.	190 Ad.c.	105 Ad.c.	190 Ad.c.
AC output (Back-up)				
Max./rated output power	6000 W	8000 W	4600 W	8000 W
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.			
Nominal frequency	50/60 Hz			
Max. (rated) output current	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.	20.9 Aa.c.@ 220 Va.c. 20.0 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.
AC output (Grid side)				
Max. (rated) apparent output power	6000 VA	8000 VA	4600 VA	6000 VA
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.			
Nominal frequency	50/60 Hz			
Max. (rated) output current	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.	20.9 Aa.c.@ 220 Va.c. 20.0 Aa.c.@ 230 Va.c.	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.
AC input				
Nominal voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.			
Max. (rated) continuous current	40 Aa.c. @ 220 Va.c. 39 Aa.c.@ 230 Va.c.	50 Aa.c.@ 220 Va.c. 50 Aa.c.@ 230 Va.c.	29 Aa.c.@ 220 Va.c. 28 Aa.c.@ 230 Va.c.	50 Aa.c.@ 220 Va.c. 50 Aa.c.@ 230 Va.c.
Nominal frequency	50/60 Hz			
General parameters				
Power factor range	-0.8, ..., 1, ..., +0.8			
Protective class	I			
Ingress protection	IP66			
Operating temperature range	-40°C, ..., +60 °C			

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Product Service

Attestation of Conformity

No. N8A 086470 0158 Rev. 03

Model	S6-EH1P3K-L-PLUS(21A)	S6-EH1P3.6K-L-PLUS(21A)	S6-EH1P4.6K-L-PLUS(21A)
PV input			
Max. input voltage	500 Vd.c.		
MPPT voltage range	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.
Max. input current	2x21 Ad.c.	2x21 Ad.c.	2x21 Ad.c.
Isc PV (absolute maximum)	2x24Ad.c.	2x24 Ad.c.	2x24 Ad.c.
MPPT number/max input strings number	2/2	2/2	2/2
Battery input			
Battery type	Li-ion / Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.
Max. charge current	70 Ad.c.	80 Ad.c.	105 Ad.c.
Max. discharge current	70 Ad.c.	80 Ad.c.	105 Ad.c.
AC output (Back-up)			
Max. (rated) output power	3000 W	3600 W	4600 W
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.	20.9 Aa.c.@ 220 Va.c. 20.0 Aa.c.@ 230 Va.c.
AC output (Grid side)			
Max. (rated) apparent output power	3000 VA	3600 VA	4600 VA
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.	20.9 Aa.c.@ 220 Va.c. 20.0 Aa.c.@ 230 Va.c.
AC input			
Nominal voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Max. (rated) continuous current	21 Aa.c.@ 220 Va.c. 20 Aa.c.@ 230 Va.c.	25 Aa.c.@ 220 Va.c. 24 Aa.c.@ 230 Va.c.	29 Aa.c.@ 220 Va.c. 28 Aa.c.@ 230 Va.c.
Nominal frequency	50 / 60 Hz		
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40°C, ..., +60 °C		

Page 4 of 6

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Product Service

Attestation of Conformity

No. N8A 086470 0158 Rev. 03

Model	S6-EH1P5K-L-PLUS(21A)	S6-EH1P6K-L-PLUS(21A)	S6-EH1P8K-L-PLUS(21A)
PV input			
Max. input voltage	500 Vd.c.		
MPPT voltage range	90, ..., 435 Vd.c.		
Max. input current	2x21 Ad.c.	2x21 Ad.c.	2x42 Ad.c.
Isc PV (absolute maximum)	2x24 Ad.c.	2x24 Ad.c.	2x48 Ad.c.
MPPT number/max input strings number	2/2	2/2	2/4
Battery input			
Battery type	Li-ion / Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.		
Max. charge current	112 Ad.c.	135 Ad.c.	190 Ad.c.
Max. discharge current	112 Ad.c.	135 Ad.c.	190 Ad.c.
AC output (Back-up)			
Max. (rated) output power	5000 W	6000 W	8000 W
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max./rated output current	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.
AC output (Grid side)			
Max. (rated) apparent output power	5000 VA	6000 VA	8000 VA
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.
AC input			
Nominal voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Max. (rated) continuous current	32 Aa.c.@ 220 Va.c. 31 Aa.c.@ 230 Va.c.	40 Aa.c.@ 220 Va.c. 39 Aa.c.@ 230 Va.c.	50 Aa.c.@ 220 Va.c. 50 Aa.c.@ 230 Va.c.
Nominal frequency	50 / 60 Hz		
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40°C, ..., +60 °C		

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Product Service

Attestation of Conformity

No. N8A 086470 0158 Rev. 03

Model	S6-EH1P9K-L-PLUS(21A)	S6-EH1P9.9K-L-PLUS(21A)	S6-EH1P10K-L-PLUS(21A)
PV input			
Max. input voltage	500 Vd.c.		
MPPT voltage range	90, ..., 435 Vd.c.		
Max. input current	2x42 Ad.c.	2x42 Ad.c.	2x42 Ad.c.
Isc PV (absolute maximum)	2x48 Ad.c.	2x48 Ad.c.	2x48 Ad.c.
MPPT number/max input strings number	2/4	2/4	2/4
Battery input			
Battery type	Li-ion / Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.		
Max. charge current	200 Ad.c.	210 Ad.c.	210 Ad.c.
Max. discharge current	200 Ad.c.	210 Ad.c.	210 Ad.c.
AC output (Back-up)			
Max. (rated) output power	9000 W	9900 W	10000 W
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max./rated output current	40.9 Aa.c.@ 220 Va.c. 39.1 Aa.c.@ 230 Va.c.	45.0 Aa.c.@ 220 Va.c. 43.1 Aa.c.@ 230 Va.c.	45.5 Aa.c.@ 220 Va.c. 43.5 Aa.c.@ 230 Va.c.
AC output (Grid side)			
Max. (rated) apparent output power	9000 VA	9900 VA	10000 VA
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	40.9 Aa.c.@ 220 Va.c. 39.1 Aa.c.@ 230 Va.c.	45.0 Aa.c.@ 220 Va.c. 43.1 Aa.c.@ 230 Va.c.	45.5 Aa.c.@ 220 Va.c. 43.5 Aa.c.@ 230 Va.c.
AC input			
Nominal voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Max. (rated) continuous current	60 Aa.c.@ 220 Va.c. 60 Aa.c.@ 230 Va.c.	65 Aa.c.@ 220 Va.c. 65 Aa.c.@ 230 Va.c.	65 Aa.c.@ 220 Va.c. 65 Aa.c.@ 230 Va.c.
Nominal frequency	50 / 60 Hz		
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40°C, ..., +60 °C		

Page 6 of 6

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Product Service

Attestation of Conformity

No. T8A 086470 0159 Rev. 01

Holder of Attestation: **Ginlong Technologies Co., Ltd.**

No.57 Jintong Road
 Binhai Industrial Park, Xiangshan
 315712 Ningbo, Zhejiang
 PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
Hybrid Inverter

This Attestation of Conformity is issued on a voluntary basis in support of the Conformity Assessment Module A of Radio Equipment Directive 2014/53/EU. On the basis of the referenced test reports, the samples of the listed product were found to comply with the essential requirements of the above mentioned directive as implemented in the standards used valid at the time the tests were carried out. For the requirements of the Article(s) 3(2) and 3(3) only harmonized standards valid at the moment of issuing where used. The used standards cover the essential requirements of the Radio Equipment Directive as applicable to this product. The manufacturer must ensure compliance of the manufactured products with the technical documentation and other requirements of the Radio Equipment Directive that apply to them. National legal requirements have to be considered before bringing the product to the market. For details see: www.tuvsud.com/ps-cert

Test report no.: 4840923316401

Date, 2024-07-01


 (Ming Gu)



Product Service

Attestation of Conformity

No. T8A 086470 0159 Rev. 01

Model(s):

**S6-EH1P3K-L-PLUS, S6-EH1P3.6K-L-PLUS,
S6-EH1P4.6K-L-PLUS, S6-EH1P5K-L-PLUS,
S6-EH1P6K-L-PLUS, S6-EH1P8K-L-PLUS**

Parameters:

Test report No.:

4840924302601A (EN IEC 61000-6-1, EN IEC 61000-6-2,
EN IEC 61000-6-3, EN IEC 61000-6-4, EN 55011, EN 62920)
4840924302601B (EN 301 489-1, Draft EN 301 489-17)
4840924302601C (EN 300 328, EN 50663)
50409230013198-01 (EN 62109-1, EN 62109-2)

Model	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P4.6K-L-PLUS
PV-Input			
Max. input voltage d.c.	500 V		
Mppt voltage range d.c.	90-435 V		
Max. input current d.c.	2x16 A		
Isc PV (absolute maximum) d.c.	2x20 A		
Battery			
Battery type	Li-ion/Lead-acid		
Battery Voltage range d.c.	40-60V		
Max. Charge/discharge current d.c.	70A /70A	80A /80A	105A /105A
AC-Output (Back-up)			
Max. /Rated output power a.c.	3000W	3600W	4600W
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	13.7A/13.1A	16.4A/15.7A	20.9A/20A
AC-Output (Grid side)			
Max. /Rated apparent output power a.c.	3000VA	3600VA	4600VA
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	13.7A/13.1A	16.4A/15.7A	20.9A/20A
Power factor range	-0.8...1...+ 0.8		
Protective class	I		
Ingress protection	IP66		
Ambient temperature	-40...+60°C		
AC-Input (For grid port and Gen port)			
Nominal voltage a.c.	1/N/PE, 220V/230V		
Max. /Rated continuous current	21A/20A	25A/24A	29A/28A
Nominal Frequency	50/60Hz		

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Product Service

Attestation of Conformity

No. T8A 086470 0159 Rev. 01

Model	S6-EH1P5K-L-PLUS	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS
PV-Input			
Max. input voltage d.c.	500 V	500 V	500 V
Mppt voltage range d.c.	90-435 V	90-435 V	90-435 V
Max. input current d.c.	2x16 A	2x16 A	2x32 A
Isc PV (absolute maximum) d.c.	2x20 A	2x20 A	2x40 A
Battery			
Battery type	Li-ion/Lead-acid		
Battery Voltage range d.c.	40-60V		
Max. Charge/discharge current d.c.	112A /112A	135A /135A	190A /190A
AC-Output (Back-up)			
Max. /Rated output power a.c.	5000W	6000W	8000W
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	22.8A/21.8A	27.3A/26.1A	36.4A/34.8A
AC-Output (Grid side)			
Max. /Rated apparent output power a.c.	5000VA	6000VA	8000VA
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	22.8A/21.8A	27.3A/26.1A	36.4A/34.8A
Power factor range	-0.8...1...+ 0.8		
Protective class	I		
Ingress protection	IP66		
Ambient temperature	-40...+60°C		
AC-Input (For grid port and Gen port)			
Nominal voltage a.c.	1/N/PE, 220V/230V		
Max. /Rated continuous current	32A/31A	40A/39A	50A/50A
Nominal Frequency	50/60Hz		

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Product Service

Attestation of Conformity

No. T8A 086470 0159 Rev. 01

**Tested
according to:**

EN IEC 61000-6-1:2019
 EN IEC 61000-6-2:2019
 EN IEC 61000-6-3:2021
 EN IEC 61000-6-4:2019
 EN 55011:2016/A2:2021
 EN 62920:2017/A1:2021
 EN 301 489-1 V2.2.3:2019
 Draft EN 301 489-17 V3.2.6:2023
 EN 300 328 V2.2.2:2019
 EN 50663:2017
 EN 62109-1:2010
 EN 62109-2:2011

Page 4 of 4

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Compliance Document

No. D 086470 0156 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

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.: 4840923316501

Date, 2023-12-22



(Ming Gu)

Compliance Document

No. D 086470 0156 Rev. 01

Model(s): S6-EH1P3K-L-PLUS, S6-EH1P3.6K-L-PLUS,
S6-EH1P5K-L-PLUS, S6-EH1P6K-L-PLUS,
S6-EH1P8K-L-PLUS

Parameters:

Model	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P5K-L-PLUS
PV-Input			
Max. input voltage d.c.	500 V		
Mppt voltage range d.c.	90-435 V		
Max. input current d.c.	2x16 A		
Isc PV (absolute maximum) d.c.	2x20 A		
Battery			
Battery type	Li-ion/Lead-acid		
Battery Voltage range d.c.	40-60V		
Max. Charge/discharge current d.c.	70A /70A	80A /80A	112A /112A
AC-Output (Back-up)			
Max. /Rated output power a.c.	3000W	3600W	5000W
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	13.7A/13.1A	16.4A/15.7A	22.8A/21.8A
AC-Output (Grid side)			
Max. /Rated apparent output power a.c.	3000VA	3600VA	5000VA
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	13.7A/13.1A	16.4A/15.7A	22.8A/21.8A
Power factor range	-0.8...1...+ 0.8		
Protective class	I		
Ingress protection	IP66		
Ambient temperature	-40...+60°C		
AC-Input (For grid port and Gen port)			
Nominal voltage a.c.	1/N/PE, 220V/230V		
Max. /Rated continuous current	21A/20A	25A/24A	32A/31A
Nominal Frequency	50/60Hz		

Compliance Document

No. D 086470 0156 Rev. 01

Model	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS
PV-Input		
Max. input voltage d.c.	500 V	
Mppt voltage range d.c.	90-435 V	
Max. input current d.c.	2x16 A	2x32 A
Isc PV (absolute maximum) d.c.	2x20 A	2x40 A
Battery		
Battery type	Li-ion/Lead-acid	
Battery Voltage range d.c.	40-60V	
Max. Charge/discharge current d.c.	135A /135A	190A /190A
AC-Output (Back-up)		
Max. /Rated output power a.c.	6000W	8000W
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V
Nominal Frequency	50/60Hz	50/60Hz
Max. /Rated output current a.c.	27.3A/26.1A	36.4A/34.8A
AC-Output (Grid side)		
Max. /Rated apparent output power a.c.	6000VA	8000VA
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V
Nominal Frequency	50/60Hz	50/60Hz
Max. /Rated output current a.c.	27.3A/26.1A	36.4A/34.8A
Power factor range	-0.8...1...+ 0.8	
Protective class	I	
Ingress protection	IP66	
Ambient temperature	-40...+60℃	
AC-Input (For grid port and Gen port)		
Nominal voltage a.c.	1/N/PE,220V/230V	
Max. /Rated continuous current	40A/39A	50A/50A
Nominal Frequency	50/60Hz	

**Tested
according to:**

EN IEC 61000-6-1:2019
 EN IEC 61000-6-2:2019
 EN IEC 61000-6-3:2021
 EN IEC 61000-6-4:2019
 IEC 61000-3-2:2018/AMD1:2020
 IEC 61000-3-12:2011/AMD1:2021
 IEC 61000-3-3:2013/AMD2:2021
 IEC 61000-3-11:2017
 IEC 62920:2017/A1:2021

Compliance Document

No. D 086470 0198 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: **Converter**
Hybrid Inverter

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.: 4840924302500

Date, 2024-06-28



(Ming Gu)

Compliance Document

No. D 086470 0198 Rev. 00

Model(s):

S6-EH1P3K-L-PLUS, S6-EH1P3.6K-L-PLUS,
S6-EH1P4.6K-L-PLUS, S6-EH1P5K-L-PLUS,
S6-EH1P6K-L-PLUS, S6-EH1P8K-L-PLUS
S6-EH1P3K-L-PLUS-AU, S6-EH1P3.6K-L-PLUS-AU,
S6-EH1P5K-L-PLUS-AU, S6-EH1P6K-L-PLUS-AU,
S6-EH1P8K-L-PLUS-AU

Parameters:

Model	S6-EH1P3K-L-PLUS		S6-EH1P3.6K-L-PLUS	S6-EH1P4.6K-L-PLUS
PV-Input				
Max. input voltage d.c.	500 V			
Mppt voltage range d.c.	90-435 V			
Max. input current d.c.	2x16 A			
Isc PV (absolute maximum) d.c.	2x20 A			
Battery				
Battery type	Li-ion/Lead-acid			
Battery Voltage range d.c.	40-60V			
Max. Charge/discharge current d.c.	70A /70A	80A /80A	105A /105A	
AC-Output (Back-up)				
Max. /Rated output power a.c.	3000W	3600W	4600W	
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V	
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz	
Max. /Rated output current a.c.	13.7A/13.1A	16.4A/15.7A	20.9A/20A	
AC-Output (Grid side)				
Max. /Rated apparent output power a.c.	3000VA	3600VA	4600VA	
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V	
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz	
Max. /Rated output current a.c.	13.7A/13.1A	16.4A/15.7A	20.9A/20A	
Power factor range	-0.8...1...+ 0.8			
Protective class	I			
Ingress protection	IP66			
Ambient temperature	-40...+60℃			
AC-Input (For grid port and Gen port)				
Nominal voltage a.c.	1/N/PE, 220V/230V			
Max. /Rated continuous current	21A/20A	25A/24A	29A/28A	
Nominal Frequency	50/60Hz			
Model	S6-EH1P5K-L-PLUS	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS	

Compliance Document

No. D 086470 0198 Rev. 00

PV-Input			
Max. input voltage d.c.	500 V	500 V	500 V
Mppt voltage range d.c.	90-435 V	90-435 V	90-435 V
Max. input current d.c.	2x16 A	2x16 A	2x32 A
Isc PV (absolute maximum) d.c.	2x20 A	2x20 A	2x40 A
Battery			
Battery type	Li-ion/Lead-acid		
Battery Voltage range d.c.	40-60V		
Max. Charge/discharge current d.c.	112A /112A	135A /135A	190A /190A
AC-Output (Back-up)			
Max. /Rated output power a.c.	5000W	6000W	8000W
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	22.8A/21.8A	27.3A/26.1A	36.4A/34.8A
AC-Output (Grid side)			
Max. /Rated apparent output power a.c.	5000VA	6000VA	8000VA
Nominal output voltage a.c.	1/N/PE,220V/230V	1/N/PE,220V/230V	1/N/PE,220V/230V
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	22.8A/21.8A	27.3A/26.1A	36.4A/34.8A
Power factor range	-0.8...1...+ 0.8		
Protective class	I		
Ingress protection	IP66		
Ambient temperature	-40...+60℃		
AC-Input (For grid port and Gen port)			
Nominal voltage a.c.	1/N/PE, 220V/230V		
Max. /Rated continuous current	32A/31A	40A/39A	50A/50A
Nominal Frequency	50/60Hz		

Model	S6-EH1P3K-L-PLUS-AU	S6-EH1P3.6K-L-PLUS-AU
PV-Input		
Max. input voltage d.c.	500 V	
Mppt voltage range d.c.	90-435 V	
Max. input current d.c.	2x16 A	
Isc PV (absolute maximum) d.c.	2x24 A	
Battery		
Battery type	Li-ion/Lead-acid	
Battery Voltage range d.c.	40-60V	

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Max. Charge/discharge current d.c.	70A /70A	80A /80A
Max. /Rated output power a.c.	3000W	3600W
Nominal output voltage a.c.	1/N/PE,230V	1/N/PE,230V
Nominal Frequency	50Hz	50Hz
Max. /Rated output current a.c.	13.1A	15.7A
Max. /Rated apparent output power a.c.	3000VA	3600VA
Nominal output voltage a.c.	1/N/PE,230V	1/N/PE,230V
Nominal Frequency	50Hz	50Hz
Max. /Rated output current a.c.	13.1A	15.7A
Power factor range	-0.8...1...+ 0.8	
Protective class	I	
Ingress protection	IP66	
Ambient temperature	-40...+60°C	
AC-Input (For grid port and Gen port)		
Nominal voltage a.c.	1/N/PE, 230V	
Max. /Rated continuous current	20A	24A
Nominal Frequency	50/60Hz	

Model	S6-EH1P5K-L-PLUS-AU	S6-EH1P6K-L-PLUS-AU	S6-EH1P8K-L-PLUS-AU
PV-Input			
Max. input voltage d.c.	500 V	500 V	500 V
Mppt voltage range d.c.	90-435 V	90-435 V	90-435 V
Max. input current d.c.	2x16 A	2x16 A	2x32 A
Isc PV (absolute maximum) d.c.	2x24 A	2x24 A	2x48 A
Battery			
Battery type	Li-ion/Lead-acid		
Battery Voltage range d.c.	40-60V		
Max. Charge/discharge current d.c.	112A /112A	135A /135A	190A /190A
AC-Output (Back-up)			
Max. /Rated output power a.c.	5000W	6000W	8000W
Nominal output voltage a.c.	1/N/PE,230V	1/N/PE,230V	1/N/PE,230V
Nominal Frequency	50Hz	50Hz	50Hz
Max. /Rated output current a.c.	21.8A	26.1A	34.8A
AC-Output (Grid side)			
Max. /Rated apparent output power a.c.	5000VA	6000VA	8000VA
Nominal output voltage a.c.	1/N/PE,230V	1/N/PE,230V	1/N/PE,230V
Nominal Frequency	50Hz	50Hz	50Hz

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Max. /Rated output current a.c.	21.8A	26.1A	34.8A
Power factor range	-0.8...1...+ 0.8		
Protective class	I		
Ingress protection	IP66		
Ambient temperature	-40...+60°C		
AC-Input (For grid port and Gen port)			
Nominal voltage a.c.	1/N/PE, 220V/230V		
Max. /Rated continuous current	31A	39A	50A
Nominal Frequency	50/60Hz		

**Tested
according to:**

IEC 61000-6-1:2016
IEC 61000-6-2:2016
IEC 61000-6-3:2020
IEC 61000-6-4:2018
IEC 61000-3-2:2018/AMD1:2020
IEC 61000-3-12:2011/AMD1:2021
IEC 61000-3-3:2013/AMD2:2021
IEC 61000-3-11:2017
IEC 62920:2017/A1:2021



Product Service

CERTIFICATE

No. B 086470 0157 Rev. 03

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**

Model(s):

S6-EH1P3K-L-PLUS, S6-EH1P3.6K-L-PLUS, S6-EH1P4.6K-L-PLUS,
S6-EH1P5K-L-PLUS, S6-EH1P6K-L-PLUS, S6-EH1P8K-L-PLUS,
S6-EH1P8K-L-PLUS-IT, S6-EH1P3K-L-PLUS(21A),
S6-EH1P3.6K-L-PLUS(21A), S6-EH1P4.6K-L-PLUS(21A),
S6-EH1P5K-L-PLUS(21A), S6-EH1P6K-L-PLUS(21A),
S6-EH1P8K-L-PLUS(21A), S6-EH1P9K-L-PLUS(21A),
S6-EH1P9.9K-L-PLUS(21A), S6-EH1P10K-L-PLUS(21A)

Parameters:

See next pages

Tested according to:

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

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, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.:

50409230013198-03

Valid until:

2030-07-28

Date, 2025-07-29

(Zhengdong Ma)

CERTIFICATE

No. B 086470 0157 Rev. 03

Model	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P5K-L-PLUS
PV input			
Max. input voltage	500 Vd.c.	500 Vd.c.	500 Vd.c.
MPPT voltage range	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.
Max. input current	2x16 Ad.c.	2x16 Ad.c.	2x16 Ad.c.
Isc PV (absolute maximum)	2x20 Ad.c.	2x20 Ad.c.	2x20 Ad.c.
Battery input			
Battery type	Li-ion/Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.
Max. charge current	70 Ad.c.	80 Ad.c.	112 Ad.c.
Max. discharge current	70 Ad.c.	80 Ad.c.	112 Ad.c.
AC output (Back-up)			
Max. (rated) output power	3000 W	3600 W	5000 W
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.		
Nominal frequency	50/60 Hz		
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.
AC output (Grid side)			
Max. (rated) apparent output power	3000 VA	3600 VA	5000 VA
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.		
Nominal frequency	50/60 Hz		
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.
AC input			
Nominal voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.		
Max. (rated) continuous current	21 Aa.c.@ 220 Va.c. 20 Aa.c.@ 230 Va.c.	25 Aa.c.@ 220 Va.c. 24 Aa.c.@ 230 Va.c.	32 Aa.c.@ 220 Va.c. 31 Aa.c.@ 230 Va.c.
Nominal frequency	50/60 Hz		
General parameters			
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40°C, ..., +60 °C		

CERTIFICATE

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Model	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS	S6-EH1P4.6K-L-PLUS	S6-EH1P8K-L-PLUS-IT
PV input				
Max. input voltage	500 Vd.c.	500 Vd.c.	500 Vd.c.	500 Vd.c.
MPPT voltage range	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.
Max. input current	2x16 Ad.c.	2x32 Ad.c.	2x16 Ad.c.	2x32 Ad.c.
Isc PV (absolute maximum)	2x20 Ad.c.	2x40 Ad.c.	2x20 Ad.c.	2x40 Ad.c.
Battery input				
Battery type	Li-ion/Lead-acid			
Battery voltage range	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.
Max. charge current	135 Ad.c.	190 Ad.c.	105 Ad.c.	190 Ad.c.
Max. discharge current	135 Ad.c.	190 Ad.c.	105 Ad.c.	190 Ad.c.
AC output (Back-up)				
Max./rated output power	6000 W	8000 W	4600 W	8000 W
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.			
Nominal frequency	50/60 Hz			
Max. (rated) output current	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.	20.9 Aa.c.@ 220 Va.c. 20.0 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.
AC output (Grid side)				
Max. (rated) apparent output power	6000 VA	8000 VA	4600 VA	6000 VA
Nominal output voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.			
Nominal frequency	50/60 Hz			
Max. (rated) output current	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.	20.9 Aa.c.@ 220 Va.c. 20.0 Aa.c.@ 230 Va.c.	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.
AC input				
Nominal voltage	1/N/PE 220 Va.c., 1/N/PE 230 Va.c.			
Max. (rated) continuous current	40 Aa.c. @ 220 Va.c. 39 Aa.c.@ 230 Va.c.	50 Aa.c.@ 220 Va.c. 50 Aa.c.@ 230 Va.c.	29 Aa.c.@ 220 Va.c. 28 Aa.c.@ 230 Va.c.	50 Aa.c.@ 220 Va.c. 50 Aa.c.@ 230 Va.c.
Nominal frequency	50/60 Hz			
General parameters				
Power factor range	-0.8, ..., 1, ..., +0.8			
Protective class	I			
Ingress protection	IP66			
Operating temperature range	-40°C, ..., +60 °C			

CERTIFICATE

No. B 086470 0157 Rev. 03

Model	S6-EH1P3K-L-PLUS(21A)	S6-EH1P3.6K-L-PLUS(21A)	S6-EH1P4.6K-L-PLUS(21A)
PV input			
Max. input voltage	500 Vd.c.		
MPPT voltage range	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.	90, ..., 435 Vd.c.
Max. input current	2x21 Ad.c.	2x21 Ad.c.	2x21 Ad.c.
Isc PV (absolute maximum)	2x24Ad.c.	2x24 Ad.c.	2x24 Ad.c.
MPPT number/max input strings number	2/2	2/2	2/2
Battery input			
Battery type	Li-ion / Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.	40, ..., 60 Vd.c.
Max. charge current	70 Ad.c.	80 Ad.c.	105 Ad.c.
Max. discharge current	70 Ad.c.	80 Ad.c.	105 Ad.c.
AC output (Back-up)			
Max. (rated) output power	3000 W	3600 W	4600 W
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.	20.9 Aa.c.@ 220 Va.c. 20.0 Aa.c.@ 230 Va.c.
AC output (Grid side)			
Max. (rated) apparent output power	3000 VA	3600 VA	4600 VA
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	13.7 Aa.c.@ 220 Va.c. 13.1 Aa.c.@ 230 Va.c.	16.4 Aa.c.@ 220 Va.c. 15.7 Aa.c.@ 230 Va.c.	20.9 Aa.c.@ 220 Va.c. 20.0 Aa.c.@ 230 Va.c.
AC input			
Nominal voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Max. (rated) continuous current	21 Aa.c.@ 220 Va.c. 20 Aa.c.@ 230 Va.c.	25 Aa.c.@ 220 Va.c. 24 Aa.c.@ 230 Va.c.	29 Aa.c.@ 220 Va.c. 28 Aa.c.@ 230 Va.c.
Nominal frequency	50 / 60 Hz		
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40°C, ..., +60 °C		

CERTIFICATE

No. B 086470 0157 Rev. 03

Model	S6-EH1P5K-L-PLUS(21A)	S6-EH1P6K-L-PLUS(21A)	S6-EH1P8K-L-PLUS(21A)
PV input			
Max. input voltage	500 Vd.c.		
MPPT voltage range	90, ..., 435 Vd.c.		
Max. input current	2x21 Ad.c.	2x21 Ad.c.	2x42 Ad.c.
Isc PV (absolute maximum)	2x24 Ad.c.	2x24 Ad.c.	2x48 Ad.c.
MPPT number/max input strings number	2/2	2/2	2/4
Battery input			
Battery type	Li-ion / Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.		
Max. charge current	112 Ad.c.	135 Ad.c.	190 Ad.c.
Max. discharge current	112 Ad.c.	135 Ad.c.	190 Ad.c.
AC output (Back-up)			
Max. (rated) output power	5000 W	6000 W	8000 W
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max./rated output current	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.
AC output (Grid side)			
Max. (rated) apparent output power	5000 VA	6000 VA	8000 VA
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	22.8 Aa.c.@ 220 Va.c. 21.8 Aa.c.@ 230 Va.c.	27.3 Aa.c.@ 220 Va.c. 26.1 Aa.c.@ 230 Va.c.	36.4 Aa.c.@ 220 Va.c. 34.8 Aa.c.@ 230 Va.c.
AC input			
Nominal voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Max. (rated) continuous current	32 Aa.c.@ 220 Va.c. 31 Aa.c.@ 230 Va.c.	40 Aa.c.@ 220 Va.c. 39 Aa.c.@ 230 Va.c.	50 Aa.c.@ 220 Va.c. 50 Aa.c.@ 230 Va.c.
Nominal frequency	50 / 60 Hz		
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40°C, ..., +60 °C		

CERTIFICATE

No. B 086470 0157 Rev. 03

Model	S6-EH1P9K-L-PLUS(21A)	S6-EH1P9.9K-L-PLUS(21A)	S6-EH1P10K-L-PLUS(21A)
PV input			
Max. input voltage	500 Vd.c.		
MPPT voltage range	90, ..., 435 Vd.c.		
Max. input current	2x42 Ad.c.	2x42 Ad.c.	2x42 Ad.c.
Isc PV (absolute maximum)	2x48 Ad.c.	2x48 Ad.c.	2x48 Ad.c.
MPPT number/max input strings number	2/4	2/4	2/4
Battery input			
Battery type	Li-ion / Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.		
Max. charge current	200 Ad.c.	210 Ad.c.	210 Ad.c.
Max. discharge current	200 Ad.c.	210 Ad.c.	210 Ad.c.
AC output (Back-up)			
Max. (rated) output power	9000 W	9900 W	10000 W
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max./rated output current	40.9 Aa.c.@ 220 Va.c. 39.1 Aa.c.@ 230 Va.c.	45.0 Aa.c.@ 220 Va.c. 43.1 Aa.c.@ 230 Va.c.	45.5 Aa.c.@ 220 Va.c. 43.5 Aa.c.@ 230 Va.c.
AC output (Grid side)			
Max. (rated) apparent output power	9000 VA	9900 VA	10000 VA
Nominal output voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	40.9 Aa.c.@ 220 Va.c. 39.1 Aa.c.@ 230 Va.c.	45.0 Aa.c.@ 220 Va.c. 43.1 Aa.c.@ 230 Va.c.	45.5 Aa.c.@ 220 Va.c. 43.5 Aa.c.@ 230 Va.c.
AC input			
Nominal voltage	1/N/PE 220 Va.c. 1/N/PE 230 Va.c.		
Max. (rated) continuous current	60 Aa.c.@ 220 Va.c. 60 Aa.c.@ 230 Va.c.	65 Aa.c.@ 220 Va.c. 65 Aa.c.@ 230 Va.c.	65 Aa.c.@ 220 Va.c. 65 Aa.c.@ 230 Va.c.
Nominal frequency	50 / 60 Hz		
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40°C, ..., +60 °C		

CERTIFICADO DE CONFORMIDAD

Por medio del certificado de producto número / By the product certificate number

Nº 240266RECO11-CER

Emitido a: / Issued to:

Propietario de la licencia: /
License holder:

Ginlong Technologies Co., Ltd.

No. 57 Jintong Road, Binhai Industrial Park, Xiangshan, Ningbo,
Zhejiang, 315712, P.R. China.

Marca: / Trademark:

Dirección de fábrica: /
Factory location:

Ginlong Technologies Co., Ltd.

No. 188 Jinkai Road, Binhai Industrial Park, Xiangshan, Ningbo,
Zhejiang, P.R. China

Se certifica que el producto: / It is certified that the product:

Tipo de aparato: / Type of product: **Convertidor bidireccional / Bidirectional Converter**

Modelos: / Models:

**S6-EH1P3K-L-PLUS / S6-EH1P3.6K-L-PLUS /
S6-EH1P4.6K-L-PLUS / S6-EH1P5K-L-PLUS /
S6-EH1P6K-L-PLUS / S6-EH1P8K-L-PLUS**Datos técnicos: /
Rated characteristics:

Potencia nominal / Rated power

Ver página 3 / See page 3

Tensión nominal / Rated voltage

230 V_{ac}

Frecuencia nominal / Rated frequency

50 Hz

Versión firmware / Firmware version

A2

Número de fases / Number of phases

**Monofásico / Single-phase
(L/N/PE)**Transformador de aislamiento /
Isolation transformer

Sí / Yes

Está en cumplimiento con las normas: / is in compliance with the standards:

- Norma Técnica de Supervisión de la conformidad de los Módulos de Generación de Electricidad según el Reglamento UE 2016/631. Revisión 2.1 del 9 de julio de 2021 ⁽¹⁾
- Corrección de errores de la versión 2.1 (del 9/7/2021) de la Norma Técnica de Supervisión de la conformidad de los Módulos de Generación de Electricidad según el Reglamento UE 2016/631. Revisión 1.0 del 8 de octubre de 2021.

⁽¹⁾ Ver en la página 2 más detalles sobre los requisitos de esta norma que están evaluados y en cumplimiento bajo el alcance de este certificado. / See page 2 for more details regarding the standard's requirements that are evaluated and in compliance under the scope of this certificate.

Se certifica que las Unidades de Generación Eléctrica (UGE) indicadas en este certificado cumplen con los requisitos estipulados en la norma certificada para solicitudes de conexión según **TIPO A**. / It is certified that Power Generating Units (PGU) above-indicated are in compliance with requirements detailed in the above-referenced standard for grid connections of **TYPE A**.

El equipo antes mencionado está certificado conforme con el procedimiento interno de SGS PE.T-ECPE-65 de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-65 based on the requirements of the UNE-EN ISO/IEC 17065.

Este certificado se emite por vez primera el 15 de noviembre de 2024. / This certificate is first issued on 15th November 2024.

Madrid, 15 de noviembre de 2024 / Madrid, 15th November 2024

María J. González Soria
Certificadora



Requisito / Requirement	Apartado / Clause	Tipo / Type	Cumplimiento / Compliance			Entidad emisora / Issuing Entity	Ev. (*)
	NTS / NTS		SÍ / YES	NO / NO	N/A / N/A		
Modo regulación potencia-frecuencia limitado sobrefrecuencia (MRPFL-O) / Limited Frequency Sensitive Mode-Overfrequency (LFSM-O)	5.1	≥A	☒	☐	☐	SGS	P
			TR N° 240266RECO11				
Modo regulación potencia-frecuencia limitado-subfrecuencia (MRPFL-U) / Limited Frequency Sensitive Mode-Underfrequency (LFSM-U)	5.2	≥C	☐	☐	☒	--	--
			TR N° --				
Modo regulación potencia-frecuencia (MRPF) / Frequency Sensitive Mode (FSM)	5.3	≥C	☐	☐	☒	--	--
			TR N° --				
Capacidad de control y el rango de control de la potencia activa en remoto / Remote power control capability and range	5.5	≥C	☐	☐	☒	--	--
			TR N° --				
Capacidad de potencia reactiva a la capacidad máxima y por debajo / Reactive power capability at maximum and below capacity	5.7	≥B	☐	☐	☒	--	--
			TR N° --				
Modo de control de potencia reactiva / Reactive power control modes	5.8	≥B	☐	☐	☒	--	--
			TR N° --				
Modo del control de tensión / Voltage control modes	5.8	≥B	☐	☐	☒	--	--
			TR N° --				
Modo de control de factor de potencia / Power factor control modes	5.8	≥B	☐	☐	☒	--	--
			TR N° --				
Capacidad para soportar huecos de tensión de los MPE conectados por debajo de 110 kV / Fault-ride-through capability of PPMs connected below 110 kV	5.11	≥B	☐	☐	☒	--	--
			TR N° --				
Capacidad para soportar huecos de tensión de los MPE conectados por encima de 110 kV / Fault-ride-through capability of PPMs connected above 110 kV	5.11	D	☐	☐	☒	--	--
			TR N° --				
Recuperación de la potencia activa después de una falta / Recovery of active power after a fault	5.11	≥B	☐	☐	☒	--	--
			TR N° --				
Inyección rápida de corriente de falta en el punto de conexión en caso de faltas (trifásicas) equilibradas y en caso de faltas (monofásicas o bifásicas) desequilibradas / Rapid current injection control	5.11	≥B	☐	☐	☒	--	--
			TR N° --				

(*) Evaluado por: / Evaluated by:

P: Prueba de conformidad / Test of compliance

S: Simulación de conformidad / Simulation of compliance



Lista completa de referencias con las características nominales de los productos certificados: / Full list of product references and nominal characteristics:

Model	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P4.6K-L-PLUS
PV input			
Max. Input Voltage	500 V		
MPPT Voltage range	90-435 V		
AC output			
Rated power	3000 W	3600 W	4600 W
Rated current	13.1 A	15.7 A	20.0 A

Model	S6-EH1P5K-L-PLUS	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS
PV input			
Max. Input Voltage	500 V		
MPPT Voltage range	90-435 V		
AC output			
Rated power	5000 W	6000 W	8000 W
Rated current	21.8 A	26.1 A	34.8 A



Certificado de Conformidad

Por medio del certificado de producto número / By the product certificate number

Nº 240266RECO12-B-CER

Emitido a: / Issued to:

Propietario de la licencia: /
License holder:

Ginlong Technologies Co., Ltd.

No. 57 Jintong Road, Binhai Industrial Park, Xiangshan, Ningbo,
Zhejiang, 315712, P.R. China.

Marca: / Trademark:



Dirección de fábrica: /
Factory location:

Ginlong Technologies Co., Ltd.

No. 188 Jinkai Road, Binhai Industrial Park, Xiangshan, Ningbo,
Zhejiang, P.R. China

Se certifica que el producto: / It is certified that the product:

Tipo de aparato: / Type of product: **Convertidor bidireccional / Bidirectional Converter**

Modelos: / Models:

**S6-EH1P3K-L-PLUS / S6-EH1P3.6K-L-PLUS /
S6-EH1P4.6K-L-PLUS / S6-EH1P5K-L-PLUS /
S6-EH1P6K-L-PLUS / S6-EH1P8K-L-PLUS**

Datos técnicos: /
Rated characteristics:

Potencia nominal / Rated power

Tensión nominal / Rated voltage

Frecuencia nominal / Rated frequency

Versión firmware / Firmware version

Número de fases / Number of phases

Transformador de aislamiento /
Isolation transformer

Ver página 2 / See page 2

230 V_{AC}

50 Hz

A2

**Monofásico / Single-phase
(L/N/PE)**

Sí / Yes

Está en cumplimiento con los requisitos de las regulaciones: / Is in compliance with the requirements of the regulations:

- **RD 647/2020**, de 7 de julio, por el que se regulan aspectos necesarios para la implementación de los códigos de red de conexión de determinadas instalaciones eléctricas. ⁽¹⁾
- **RD 413/2014**, de 6 de junio, por el que se regula la actividad de producción de energía eléctrica a partir de fuentes de energía renovables, cogeneración y residuos. ⁽¹⁾
- **RD 1699/2011**, de 18 de noviembre, por el que se regula la conexión a red de instalaciones de producción de energía eléctrica de pequeña potencia. ⁽¹⁾

⁽¹⁾ **Observación:** Siendo **SOLO** certificadas las prescripciones técnicas aplicables a los requisitos para funciones de protección ante variaciones anormales de tensión y frecuencia, auto-reconexión y factor de potencia en la red, según viene definido en el Real Decreto 647/2020. / ⁽¹⁾ **Remark:** Being **ONLY** certified the technical prescriptions applicable to the protective functions requirements for voltage and frequency abnormal variations, self-reconnection and power factor in the grid, as stated in the Real Decreto 647/2020.

El equipo antes mencionado está certificado conforme con el procedimiento interno PROCESO 4 de SGS de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / The above-mentioned generating unit is certified according to the SGS internal procedure PROCESO 4 based on the requirements of the UNE-EN ISO/IEC 17065.

Este certificado se emite por vez primera el 27 de noviembre de 2024. / This certificate is first issued on 27th November 2024.

Este certificado es válido hasta el 27 de noviembre de 2029. / This certificate is valid until the 27th November 2029.

Madrid, 27 de noviembre de 2024 / Madrid, 27th November 2024

María J. González Soria
Certificadora



Lista completa de referencias con las características nominales de los productos certificados: / **Full list of product references and nominal characteristics:**

Model	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P4.6K-L-PLUS
PV input			
Max. Input Voltage	500 V		
MPPT Voltage range	90-435 V		
AC output			
Rated power	3000 W	3600 W	4600 W
Rated current	13.1 A	15.7 A	20.0 A

Model	S6-EH1P5K-L-PLUS	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS
PV input			
Max. Input Voltage	500 V		
MPPT Voltage range	90-435 V		
AC output			
Rated power	5000 W	6000 W	8000 W
Rated current	21.8 A	26.1 A	34.8 A



Certificado de conformidad

Por medio del certificado de producto número / By the product certificate number

Nº 240266RECO10-CER

Emitido a: / Issued to:

Propietario de la licencia: /
License holder:

Ginlong Technologies Co., Ltd.
No. 57 Jintong Road, Binhai Industrial Park, Xiangshan, Ningbo,
Zhejiang, 315712, P.R. China.

Marca: / Trademark:



Dirección de fábrica: /
Factory location:

Ginlong Technologies Co., Ltd.
No. 188 Jinkai Road, Binhai Industrial Park, Xiangshan, Ningbo,
Zhejiang, P.R. China

Se certifica que el producto: / It is certified that the product:

Tipo de aparato: / Type of product: **Convertidor bidireccional / Bidirectional Converter**

Modelos: / Models:

**S6-EH1P3K-L-PLUS / S6-EH1P3.6K-L-PLUS /
S6-EH1P4.6K-L-PLUS / S6-EH1P5K-L-PLUS /
S6-EH1P6K-L-PLUS / S6-EH1P8K-L-PLUS**

Datos técnicos: /
Rated characteristics:

Potencia nominal / Rated power
Tensión nominal / Rated voltage
Frecuencia nominal / Rated frequency
Versión firmware / Firmware version
Número de fases / Number of phases
**Transformador de aislamiento /
Isolation transformer**
Elemento de control / Control device

Ver página 3 / See page 3

230 V_{AC}

50 Hz

A2

**Monofásico / Single-phase
(L/N/PE)**

Sí / Yes

**Interno / Internal
(Ver página 2 / See page 2)**

Está en cumplimiento con la norma de ensayos: / Is in compliance with the test standard:

- **UNE 217001: 2020-10** "Ensayos para sistemas que eviten el vertido de energía a la red de distribución"

teniendo en cuenta los requisitos aplicables de la regulación: / taking into account the applicable requirements of the regulation:

- **Anexo I de la ITC-BT-40 - Sistemas para evitar el vertido de energía a la red** "Reglamento electrotécnico para baja tensión e ITC. Edición actualizada a 23 de marzo de 2023".

El equipo antes mencionado está certificado conforme con el procedimiento interno de SGS PE.T-ECPE-51 de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / The aforementioned equipment is certified according to the SGS internal procedure PE.T-ECPE-51 according to the requirements established in the standard UNE-EN ISO/IEC 17065.

El certificado contiene la siguiente información: / This certificate contains the following information:

- Datos técnicos de los generadores de potencia. / Technical information of power generators.
- Datos técnicos de los analizadores de potencia. / Technical information of the power analyzers.
- Esquema de la instalación de limitación de potencia con los elementos que la componen y tipo de comunicaciones empleado. / Scheme covering the elements and the installation to limit power injection and the used type of communication.
- Número máximo de unidades generadoras a conectar en paralelo. / Maximum number of generators to be connected in parallel.

Este certificado se emite por vez primera el 29 de noviembre de 2024. / This certificate is first issued on 29th November 2024.

Este certificado es válido hasta el 29 de noviembre de 2029. / This certificate is valid until the 29th November 2029.

Madrid, 29 de noviembre de 2024 / Madrid, 29th November 2024

María J. González Soria
Certificadora



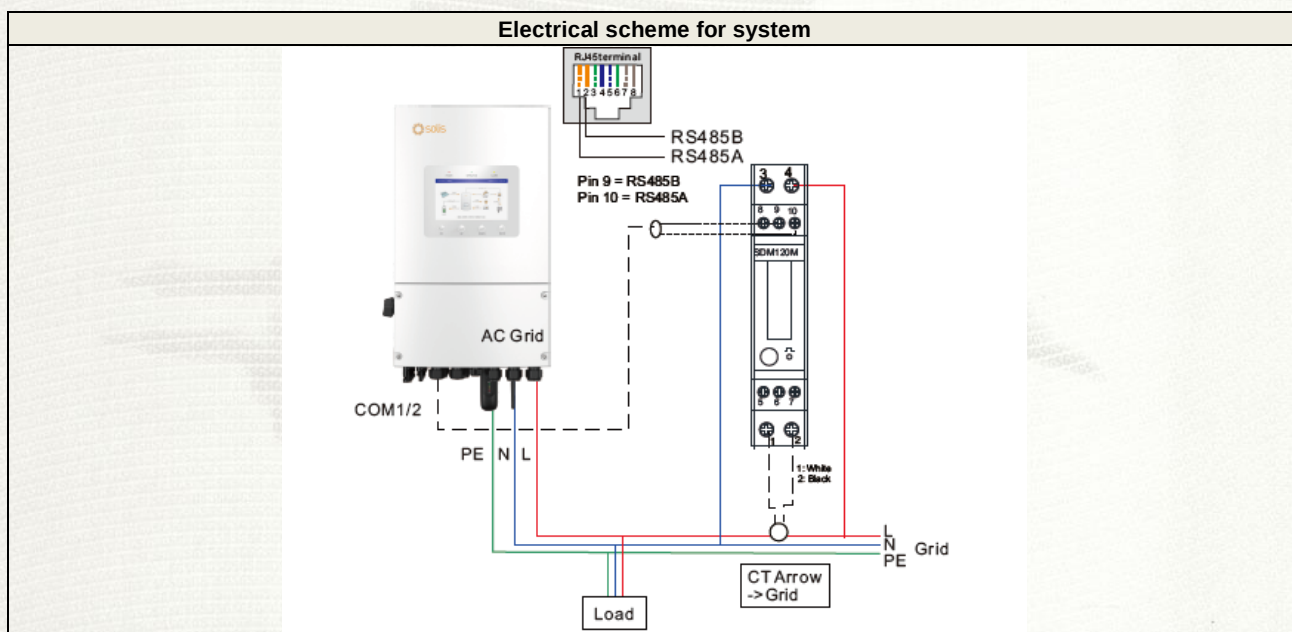
Lista de componentes de instalación: / List of installation components:

ANALIZADOR DE POTENCIA / ENERGY METER ⁽¹⁾	
Marca / Brand	EASTRON
Modelo / Model	SDM120CT-M
Fabricante / Manufacturer	Zhejiang Eastron Electronic Co., Ltd.
Características / Characteristics	230 V _{AC} , 50/60 Hz, 100 mA CT, 1000 imp/kWh Power accuracy: 1.0 % IP51

⁽¹⁾ Es admisible un analizador de potencia alternativo si tiene el mismo régimen de conexión, misma tolerancia de medida, mismo tiempo de refresco de las medidas realizadas (o inferior) y mismo tipo de comunicación con respecto al ensayado / An alternative power analyser is admissible if it has the same connection regime, same measurement tolerance, same refresh time of the measurements made (or less) and the same type of communication with respect to the one tested.

Nota: El analizador de potencia SDM120CT-M debe usarse en conjunto con el sensor de corriente proporcionado por el fabricante. La precisión total es del 1 %. / **Note:** The SDM120CT-M energy meter should be used in conjunction with the current sensor provided by the manufacturer. The total accuracy is 1 %.

Esquema de la instalación: / Installation scheme:



El número máximo de generadores a conectar en paralelo es: / Maximum number of inverters to be connected in parallel is:

- No aplica / Not applicable

Nota: Según declarado por el fabricante, cada inversor debe conectarse a un analizador de potencia y a un sensor de corriente, de modo que no es posible la operación en paralelo de varios inversores que no dispongan de un analizador de potencia y un sensor de corriente. / **Note:** As specified by the manufacturer, every inverter shall be connected to a power analyzer and a current sensor. Inverters are not allowed to work in parallel without power analyzer and current sensor.



Lista completa de referencias con las características nominales de los productos certificados: / Full list of product references and nominal characteristics:

Model	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P4.6K-L-PLUS
PV input			
Max. Input Voltage	500 V		
MPPT Voltage range	90-435 V		
AC output			
Rated power	3000 W	3600 W	4600 W
Rated current	13.1 A	15.7 A	20.0 A

Model	S6-EH1P5K-L-PLUS	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS
PV input			
Max. Input Voltage	500 V		
MPPT Voltage range	90-435 V		
AC output			
Rated power	5000 W	6000 W	8000 W
Rated current	21.8 A	26.1 A	34.8 A



Certificado de Conformidad

Por medio del certificado de producto número / By the product certificate number

Nº 240266RECO12-A-CER

Emitido a: / Issued to:

Propietario de la licencia: /
License holder:

Ginlong Technologies Co., Ltd.
No. 57 Jintong Road, Binhai Industrial Park, Xiangshan, Ningbo,
Zhejiang, 315712, P.R. China.

Marca: / Trademark:



Dirección de fábrica: /
Factory location:

Ginlong Technologies Co., Ltd.
No. 188 Jinkai Road, Binhai Industrial Park, Xiangshan, Ningbo,
Zhejiang, P.R. China

Se certifica que el producto: / It is certified that the product:

Tipo de aparato: / Type of product: **Convertidor bidireccional / Bidirectional Converter**

Modelos: / Models:

**S6-EH1P3K-L-PLUS / S6-EH1P3.6K-L-PLUS /
S6-EH1P4.6K-L-PLUS / S6-EH1P5K-L-PLUS /
S6-EH1P6K-L-PLUS / S6-EH1P8K-L-PLUS**

Datos técnicos: /
Rated characteristics:

Potencia nominal / Rated power
Tensión nominal / Rated voltage
Frecuencia nominal / Rated frequency
Versión firmware / Firmware version
Número de fases / Number of phases
**Transformador de aislamiento /
Isolation transformer**

Ver página 2 / See page 2
230 V_{AC}
50 Hz
A2
**Monofásico / Single-phase
(L/N/PE)**
Sí / Yes

Está en cumplimiento con la norma de ensayos: / Is in compliance with the test standard:

- **UNE 217002: 2020** Inversores para conexión a la red de distribución. Ensayos de los requisitos de inyección de corriente continua a la red, generación de sobretensiones y sistema de detección de funcionamiento en isla.

teniendo en cuenta los requisitos aplicables de la norma y regulación: / taking into account the applicable requirements of the standard and regulation:

- **IEC 62116:2014** "Utility-interconnected photovoltaic inverters-Test procedure of islanding prevention measures"
- **Anexo I, apartado 2.3.6 y 5.3 de la Orden Ministerial TED/749/2020**, de 16 de julio, por la que se establecen los requisitos técnicos para la conexión a la red necesarios para la implementación de los códigos de red de conexión.

El equipo antes mencionado está certificado conforme con el procedimiento interno de SGS PE.T-ECPE-23 de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-23 based on the requirements of the UNE-EN ISO/IEC 17065.

Este certificado se emite por vez primera el 27 de noviembre de 2024. / This certificate is first issued on 27th November 2024.
Este certificado es válido hasta el 27 de noviembre de 2029. / This certificate is valid until the 27th November 2029.

Madrid, 27 de noviembre de 2024 / Madrid, 27th November 2024

María J. González Soria
Certificadora



Lista completa de referencias con las características nominales de los productos certificados: / Full list of product references and nominal characteristics:

Model	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P4.6K-L-PLUS
PV input			
Max. Input Voltage	500 V		
MPPT Voltage range	90-435 V		
AC output			
Rated power	3000 W	3600 W	4600 W
Rated current	13.1 A	15.7 A	20.0 A

Model	S6-EH1P5K-L-PLUS	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS
PV input			
Max. Input Voltage	500 V		
MPPT Voltage range	90-435 V		
AC output			
Rated power	5000 W	6000 W	8000 W
Rated current	21.8 A	26.1 A	34.8 A

