



Product Service

# Compliance Document

No. D 086470 0261 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 (integrated with AFPE)****Model(s):** S6-EH1P3K-L-PLUS, S6-EH1P3.6K-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-EH1P5K-L-PLUS(21A),  
S6-EH1P6K-L-PLUS(21A), S6-EH1P8K-L-PLUS(21A),  
S6-EH1P9.9K-L-PLUS(21A), S6-EH1P10K-L-PLUS(21A)**Parameters:** See next pages**Tested according to:** IEC 63027:2023

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](http://www.tuvsud.com/ps-cert)

**Test report no.:** 704092514280-00**Date,** 2025-08-29

( Kai Zhao )



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Models	S6-EH1P3K-L-PLUS	S6-EH1P3.6K-L-PLUS	S6-EH1P5K-L-PLUS
<b>PV input</b>			
Max. input voltage	500 Vd.c.		
MPPT voltage range	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.
MPPT number/max input strings number	2/2	2/2	2/2
<b>Battery input</b>			
Battery type	Li-ion / Lead-acid		
Battery voltage range	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.
<b>AC output (Back-up)</b>			
Max. (rated) output power	3000 W	3600 W	5000 W
Nominal output voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	13.7 Aa.c.@ AC 220 V 13.1 Aa.c.@ AC 230 V	16.4 Aa.c.@ AC 220 V 15.7 Aa.c.@ AC 230 V	22.8 Aa.c.@ AC 220 V 21.8 Aa.c.@ AC 230 V
<b>AC output (Grid side)</b>			
Max. (rated) apparent output power	3000 VA	3600 VA	5000 VA
Nominal output voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	13.7 Aa.c.@ AC 220 V 13.1 Aa.c.@ AC 230 V	16.4 Aa.c.@ AC 220 V 15.7 Aa.c.@ AC 230 V	22.8 Aa.c.@ AC 220 V 21.8 Aa.c.@ AC 230 V
<b>AC input</b>			
Nominal voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Max. (rated) continuous current	21 Aa.c.@ AC 220 V 20 Aa.c.@ AC 230 V	25 Aa.c.@ AC 220 V 24 Aa.c.@ AC 230 V	32 Aa.c.@ AC 220 V 31 Aa.c.@ AC 230 V
Nominal frequency	50 / 60 Hz		
<b>General parameters</b>			
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40 °C, ..., +60 °C		
Classification of AFPE (PV to AC)	F-I-AFPE-1-2-1	F-I-AFPE-1-2-1	F-I-AFPE-1-2-1



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Models	S6-EH1P6K-L-PLUS	S6-EH1P8K-L-PLUS	S6-EH1P3K-L-PLUS(21A)
<b>PV input</b>			
Max. input voltage	500 Vd.c.		
MPPT voltage range	90, ..., 435 Vd.c.		
Max. input current	2x16 Ad.c.	2x32 Ad.c.	2x21 Ad.c.
Isc PV (absolute maximum)	2x20 Ad.c.	2x40 Ad.c.	2x24 Ad.c.
MPPT number/max input strings number	2/2	2/4	2/2
<b>Battery input</b>			
Battery type	Li-ion / Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.		
Max. charge current	135 Ad.c.	190 Ad.c.	70 Ad.c.
Max. discharge current	135 Ad.c.	190 Ad.c.	70 Ad.c.
<b>AC output (Back-up)</b>			
Max. (rated) output power	6000 W	8000 W	3000 W
Nominal output voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Nominal frequency	50 / 60 Hz		
Max./rated output current	27.3 Aa.c.@ AC 220 V 26.1 Aa.c.@ AC 230 V	36.4 Aa.c.@ AC 220 V 34.8 Aa.c.@ AC 230 V	13.7 Aa.c.@ AC 220 V 13.1 Aa.c.@ AC 230 V
<b>AC output (Grid side)</b>			
Max. (rated) apparent output power	6000 VA	8000 VA	3000 VA
Nominal output voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	27.3 Aa.c.@ AC 220 V 26.1 Aa.c.@ AC 230 V	36.4 Aa.c.@ AC 220 V 34.8 Aa.c.@ AC 230 V	13.7 Aa.c.@ AC 220 V 13.1 Aa.c.@ AC 230 V
<b>AC input</b>			
Nominal voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Max. (rated) continuous current	40 Aa.c.@ AC 220 V 39 Aa.c.@ AC 230 V	50 Aa.c.@ AC 220 V 50 Aa.c.@ AC 230 V	21 Aa.c.@ AC 220 V 20 Aa.c.@ AC 230 V
Nominal frequency	50 / 60 Hz		
<b>General parameters</b>			
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40 °C, ..., +60 °C		
Classification of AFPE (PV to AC)	F-I-AFPE-1-2-1	F-I-AFPE-1-4-1	F-I-AFPE-1-2-1



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Models	S6-EH1P3.6K-L-PLUS(21A)	S6-EH1P5K-L-PLUS(21A)	S6-EH1P6K-L-PLUS(21A)
<b>PV input</b>			
Max. input voltage	500 Vd.c.		
MPPT voltage range	90, ..., 435 Vd.c.		
Max. input current	2x21 Ad.c.	2x21 Ad.c.	2x21 Ad.c.
Isc PV (absolute maximum)	2x24 Ad.c.	2x24 Ad.c.	2x24 Ad.c.
MPPT number/max input strings number	2/2	2/2	2/2
<b>Battery input</b>			
Battery type	Li-ion / Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.		
Max. charge current	80 Ad.c.	112 Ad.c.	135 Ad.c.
Max. discharge current	80 Ad.c.	112 Ad.c.	135 Ad.c.
<b>AC output (Back-up)</b>			
Max. (rated) output power	3600 W	5000 W	6000 W
Nominal output voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Nominal frequency	50 / 60 Hz		
Max./rated output current	16.4 Aa.c.@ AC 220 V 15.7 Aa.c.@ AC 230 V	22.8 Aa.c.@ AC 220 V 21.8 Aa.c.@ AC 230 V	27.3 Aa.c.@ AC 220 V 26.1 Aa.c.@ AC 230 V
<b>AC output (Grid side)</b>			
Max. (rated) apparent output power	3600 VA	5000 VA	6000 VA
Nominal output voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	16.4 Aa.c.@ AC 220 V 15.7 Aa.c.@ AC 230 V	22.8 Aa.c.@ AC 220 V 21.8 Aa.c.@ AC 230 V	27.3 Aa.c.@ AC 220 V 26.1 Aa.c.@ AC 230 V
<b>AC input</b>			
Nominal voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Max. (rated) continuous current	25 Aa.c.@ AC 220 V 24 Aa.c.@ AC 230 V	32 Aa.c.@ AC 220 V 31 Aa.c.@ AC 230 V	40 Aa.c.@ AC 220 V 39 Aa.c.@ AC 230 V
Nominal frequency	50 / 60 Hz		
<b>General parameters</b>			
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40 °C, ..., +60 °C		
Classification of AFPE (PV to AC)	F-I-AFPE-1-2-1	F-I-AFPE-1-2-1	F-I-AFPE-1-2-1



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No. D 086470 0261 Rev. 00

Models	S6-EH1P8K-L-PLUS(21A)	S6-EH1P9.9K-L-PLUS(21A)	S6-EH1P10K-L-PLUS(21A)
<b>PV input</b>			
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
<b>Battery input</b>			
Battery type	Li-ion / Lead-acid		
Battery voltage range	40, ..., 60 Vd.c.		
Max. charge current	190 Ad.c.	210 Ad.c.	210 Ad.c.
Max. discharge current	190 Ad.c.	210 Ad.c.	210 Ad.c.
<b>AC output (Back-up)</b>			
Max. (rated) output power	8000 W	9900 W	10000 W
Nominal output voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Nominal frequency	50 / 60 Hz		
Max./rated output current	36.4 Aa.c.@ AC 220 V 34.8 Aa.c.@ AC 230 V	45 Aa.c.@ AC 220 V 43.1 Aa.c.@ AC 230 V	45.5 Aa.c.@ AC 220 V 43.5 Aa.c.@ AC 230 V
<b>AC output (Grid side)</b>			
Max. (rated) apparent output power	8000 VA	9900 VA	10000 VA
Nominal output voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Nominal frequency	50 / 60 Hz		
Max. (rated) output current	36.4 Aa.c.@ AC 220 V 34.8 Aa.c.@ AC 230 V	45 Aa.c.@ AC 220 V 43.1 Aa.c.@ AC 230 V	45.5 Aa.c.@ AC 220 V 43.5 Aa.c.@ AC 230 V
<b>AC input</b>			
Nominal voltage	1/N/PE AC 220 V 1/N/PE AC 230 V		
Max. (rated) continuous current	50 Aa.c.@ AC 220 V 50 Aa.c.@ AC 230 V	65 Aa.c.@ AC 220 V 65 Aa.c.@ AC 230 V	65 Aa.c.@ AC 220 V 65 Aa.c.@ AC 230 V
Nominal frequency	50 / 60 Hz		
<b>General parameters</b>			
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP66		
Operating temperature range	-40 °C, ..., +60 °C		
Classification of AFPE (PV to AC)	F-I-AFPE-1-4-1	F-I-AFPE-1-2-2	F-I-AFPE-1-2-2