



Product Service

CERTIFICATE

No. B 086470 0185 Rev. 02

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

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.: 50409230013241-02

Valid until: 2029-12-09

Date, 2024-12-10

(Zhengdong Ma)

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Model(s):

S6-EH3P29.9K-H, S6-EH3P30K-H, S6-EH3P37.5K-H,
S6-EH3P40K-H, S6-EH3P50K-H, S6-EH3P30K-H-LV,
S6-EH3P29.9K-H-ND, S6-EH3P30K-H-ND, S6-EH3P40K-H-ND,
S6-EH3P49K-H-ND, S6-EH3P50K-H-ND, S6-EH3P30K-H-LV-ND,
S6-EH3P15K-H-LV-ND, S6-EH3P20K-H-LV-ND, S6-EH3P25K-H-LV-ND

Parameters:

See next pages

Tested according to:

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

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Model	S6-EH3P29.9K-H	S6-EH3P30K-H	S6-EH3P30K-H-LV
PV input			
Max. input voltage	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
MPPT voltage range	150, ..., 850 Vd.c.	150, ..., 850 Vd.c.	150, ..., 850 Vd.c.
Max. input current	3x40 Ad.c.	3x40 Ad.c.	3x40 Ad.c.
Isc PV (absolute maximum)	3x60 Ad.c.	3x60 Ad.c.	3x60 Ad.c.
MPPT number/max input strings number	3/6	3/6	3/6
Battery input			
Battery type	Li-ion		
Battery voltage range	150, ..., 800 Vd.c.	150, ..., 800 Vd.c.	150, ..., 800 Vd.c.
Max. charge current	2x70 Ad.c.	2x70 Ad.c.	2x70 Ad.c.
Max. discharge current	2x70 Ad.c.	2x70 Ad.c.	2x70 Ad.c.
AC output (Back-up)			
Max.(rated) output power	29900 W	30000 W	30000 W
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.
Nominal frequency	50/60 Hz		
Max.(rated) output current	45.4 Aa.c.@ 220/380 Va.c. 43.2 Aa.c.@ 230/400 Va.c.	45.6 Aa.c.@ 220/380 Va.c. 43.3 Aa.c.@ 230/400 Va.c.	78.7 Aa.c.@ 127/220 Va.c. 75.3 Aa.c.@ 133/230 Va.c.
AC output (Grid side)			
Max.(rated) apparent output power	29900 VA	30000 VA	30000 VA
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.
Nominal frequency	50/60 Hz		
Max.(rated) output current	45.4 Aa.c.@ 220/380 Va.c. 43.2 Aa.c.@ 230/400 Va.c.	45.6 Aa.c.@ 220/380 Va.c. 43.3 Aa.c.@ 230/400 Va.c.	78.7 Aa.c.@ 127/220 Va.c. 75.3 Aa.c.@ 133/230 Va.c.
AC input (for Grid port and Gen port)			
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.
Grid max.(rated) continuous current	90.8 Aa.c.@ 220/380 Va.c. 86.4 Aa.c.@ 230/400 Va.c.	91.2 Aa.c.@ 220/380 Va.c. 86.6 Aa.c.@ 230/400 Va.c.	152 Aa.c.@ 127/220 Va.c. 152 Aa.c.@ 133/230 Va.c.
Gen max.(rated) continuous current	45.4 Aa.c.@ 220/380 Va.c. 43.2 Aa.c.@ 230/400 Va.c.	45.6 Aa.c.@ 220/380 Va.c. 43.3 Aa.c.@ 230/400 Va.c.	78.7 Aa.c.@ 127/220 Va.c. 75.3 Aa.c.@ 133/230 Va.c.
Nominal frequency	50/60 Hz		
General			
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP 66		
Operating temperature Range	-25°C, ..., +60 °C		
Max. operation altitude	4000 m		

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Model	S6-EH3P37.5K-H	S6-EH3P40K-H	S6-EH3P50K-H
PV input			
Max. input voltage	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
MPPT voltage range	150, ..., 850 Vd.c.	150, ..., 850 Vd.c.	150, ..., 850 Vd.c.
Max. input current	4x40 Ad.c.	4x40 Ad.c.	4x40 Ad.c.
Isc PV (absolute maximum)	4x60 Ad.c.	4x60 Ad.c.	4x60 Ad.c.
MPPT number/max input strings number	4/8	4/8	4/8
Battery input			
Battery type	Li-ion		
Battery voltage range	150, ..., 800 Vd.c.	150, ..., 800 Vd.c.	150, ..., 800 Vd.c.
Max. charge current	2x70 Ad.c.	2x70 Ad.c.	2x70 Ad.c.
Max. discharge current	2x70 Ad.c.	2x70 Ad.c.	2x70 Ad.c.
AC output (Back-up)			
Max.(rated) output power	37500 W	40000 W	50000 W
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.
Nominal frequency	50/60 Hz		
Max.(rated) output current	57.0 Aa.c.@ 220/380 Va.c. 54.1 Aa.c.@ 230/400 Va.c.	60.8 Aa.c.@ 220/380 Va.c. 57.7 Aa.c.@ 230/400 Va.c.	76.0 Aa.c.@ 220/380 Va.c. 72.2 Aa.c.@ 230/400 Va.c.
AC output (Grid side)			
Max.(rated) apparent output power	37500 VA	40000 VA	50000 VA
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.
Nominal frequency	50/60 Hz		
Max.(rated) output current	57.0 Aa.c.@ 220/380 Va.c. 54.1 Aa.c.@ 230/400 Va.c.	60.8 Aa.c.@ 220/380 Va.c. 57.7 Aa.c.@ 230/400 Va.c.	76.0 Aa.c.@ 220/380 Va.c. 72.2 Aa.c.@ 230/400 Va.c.
AC input (for Grid port and Gen port)			
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.
Grid max.(rated) continuous current	114.0 Aa.c.@ 220/380 Va.c. 108.2 Aa.c.@ 230/400 Va.c.	121.6 Aa.c.@ 220/380 Va.c. 115.4 Aa.c.@ 230/400 Va.c.	152.0 Aa.c.@ 220/380 Va.c. 144.4 Aa.c.@ 230/400 Va.c.
Gen max.(rated) continuous current	57.0 Aa.c.@ 220/380 Va.c. 54.1 Aa.c.@ 230/400 Va.c.	60.8 Aa.c.@ 220/380 Va.c. 57.7 Aa.c.@ 230/400 Va.c.	76.0 Aa.c.@ 220/380 Va.c. 72.2 Aa.c.@ 230/400 Va.c.
Nominal frequency	50/60 Hz		
General			
Power factor range	-0.8, ..., 1, ..., +0.8		
Protective class	I		
Ingress protection	IP 66		
Operating temperature Range	-25°C, ..., +60 °C		
Max. operation altitude	4000 m		

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Model	S6-EH3P30K-H-ND		S6-EH3P40K-H-ND		S6-EH3P50K-H-ND	
PV input						
Max. input voltage	1000 Vd.c.					
MPPT voltage range	150, ..., 850 Vd.c.					
Max. input current	3x40 Ad.c.		4x40 Ad.c.		4x40 Ad.c.	
Isc PV (absolute maximum)	3x60 Ad.c.		4x60 Ad.c.		4x60 Ad.c.	
MPPT number/max input strings number	3/6		4/8		4/8	
Battery input						
Battery type	Li-ion					
Battery voltage range	150, ..., 800 Vd.c.					
Max. charge current	2x70 Ad.c.		2x70 Ad.c.		2x70 Ad.c.	
Max. discharge current	2x70 Ad.c.		2x70 Ad.c.		2x70 Ad.c.	
AC output (Back-up)						
Max.(rated) output power	30000 W		40000 W		50000 W	
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.					
Nominal frequency	50 / 60 Hz					
Max.(rated) output current	45.6 Aa.c.@ 220/380 Va.c. 43.3 Aa.c.@ 230/400 Va.c.		60.8 Aa.c.@ 220/380 Va.c. 57.7 Aa.c.@ 230/400 Va.c.		76.0 Aa.c.@ 220/380 Va.c. 72.2 Aa.c.@ 230/400 Va.c.	
AC output (Grid side)						
Max.(rated) apparent output power	30000 VA		40000 VA		50000 VA	
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.					
Nominal frequency	50 / 60 Hz					
Max.(rated) output current	45.6 Aa.c.@ 220/380 Va.c. 43.3 Aa.c.@ 230/400 Va.c.		60.8 Aa.c.@ 220/380 Va.c. 57.7 Aa.c.@ 230/400 Va.c.		76.0 Aa.c.@ 220/380 Va.c. 72.2 Aa.c.@ 230/400 Va.c.	
AC input (for Grid port and Gen port)						
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.					
Grid max.(rated) continuous current	91.2 Aa.c.@ 220/380 Va.c. 86.6 Aa.c.@ 230/400 Va.c.		121.6 Aa.c.@ 220/380 Va.c. 115.4 Aa.c.@ 230/400 Va.c.		152.0 Aa.c.@ 220/380 Va.c. 144.4 Aa.c.@ 230/400 Va.c.	
Gen max.(rated) continuous current	45.6 Aa.c.@ 220/380 Va.c. 43.3 Aa.c.@ 230/400 Va.c.		60.8 Aa.c.@ 220/380 Va.c. 57.7 Aa.c.@ 230/400 Va.c.		76.0 Aa.c.@ 220/380 Va.c. 72.2 Aa.c.@ 230/400 Va.c.	
Nominal frequency	50 / 60 Hz					
General						
Power factor range	-0.8, ..., 1, ..., +0.8					
Protective class	I					
Ingress protection	IP 66					
Operating temperature Range	-25°C, ..., +60 °C					
Max. operation altitude	4000 m					

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Model	S6-EH3P29.9K-H-ND		S6-EH3P49K-H-ND	
PV input				
Max. input voltage	1000 Vd.c.			
MPPT voltage range	150, ..., 850 Vd.c.			
Max. input current	3x40 Ad.c.		4x40 Ad.c.	
Isc PV (absolute maximum)	3x60 Ad.c.		4x60 Ad.c.	
MPPT number/max input strings number	3/6		4/8	
Battery input				
Battery type	Li-ion			
Battery voltage range	150, ..., 800 Vd.c.			
Max. charge current	2x70 Ad.c.		2x70 Ad.c.	
Max. discharge current	2x70 Ad.c.		2x70 Ad.c.	
AC output (Back-up)				
Max.(rated) output power	29900 W		49000 W	
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.			
Nominal frequency	50 / 60 Hz			
Max.(rated) output current	45.4 Aa.c.@ 220/380 Va.c. 43.2 Aa.c.@ 230/400 Va.c.		74.5 Aa.c.@ 220/380 Va.c. 70.7 Aa.c.@ 230/400 Va.c.	
AC output (Grid side)				
Max.(rated) apparent output power	29900 VA		49000 VA	
Nominal output voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.			
Nominal frequency	50 / 60 Hz			
Max.(rated) output current	45.4 Aa.c.@ 220/380 Va.c. 43.2 Aa.c.@ 230/400 Va.c.		74.5 Aa.c.@ 220/380 Va.c. 70.7 Aa.c.@ 230/400 Va.c.	
AC input (for Grid port and Gen port)				
Nominal voltage	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.			
Grid max.(rated) continuous current	90.8 Aa.c.@ 220/380 Va.c. 86.4 Aa.c.@ 230/400 Va.c.		149.0 Aa.c.@ 220/380 Va.c. 141.4 Aa.c.@ 230/400 Va.c.	
Gen max.(rated) continuous current	45.4 Aa.c.@ 220/380 Va.c. 43.2 Aa.c.@ 230/400 Va.c.		74.5 Aa.c.@ 220/380 Va.c. 70.7 Aa.c.@ 230/400 Va.c.	
Nominal frequency	50 / 60 Hz			
General				
Power factor range	-0.8, ..., 1, ..., +0.8			
Protective class	I			
Ingress protection	IP 66			
Operating temperature Range	-25°C, ..., +60 °C			
Max. operation altitude	4000 m			

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Model	S6-EH3P15K-H-LV-ND	S6-EH3P20K-H-LV-ND	S6-EH3P25K-H-LV-ND	S6-EH3P30K-H-LV-ND
PV input				
Max. input voltage	1000 Vd.c.			
MPPT voltage range	150, ..., 850 Vd.c.			
Max. input current	3x40 Ad.c.	3x40 Ad.c.	3x40 Ad.c.	3x40 Ad.c.
Isc PV (absolute maximum)	3x60 Ad.c.	3x60 Ad.c.	3x60 Ad.c.	3x60 Ad.c.
MPPT number/max input strings number	3/6	3/6	3/6	3/6
Battery input				
Battery type	Li-ion			
Battery voltage range	150, ..., 800 Vd.c.			
Max. charge current	2x70 Ad.c.	2x70 Ad.c.	2x70 Ad.c.	2x70 Ad.c.
Max. discharge current	2x70 Ad.c.	2x70 Ad.c.	2x70 Ad.c.	2x70 Ad.c.
AC output (Back-up)				
Max.(rated) output power	15000 W	20000 W	25000 W	30000 W
Nominal output voltage	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.			
Nominal frequency	50 / 60 Hz			
Max.(rated) output current	39.4 Aa.c.@ 127/220 Va.c., 37.7 Aa.c.@ 133/230 Va.c.	52.5 Aa.c.@ 127/220 Va.c., 50.2 Aa.c.@ 133/230 Va.c.	65.6 Aa.c.@ 127/220 Va.c., 62.8 Aa.c.@ 133/230 Va.c.	78.7 Aa.c.@ 127/220 Va.c., 75.3 Aa.c.@ 133/230 Va.c.
AC output (Grid side)				
Max.(rated) apparent output power	15000 VA	20000 VA	25000 VA	30000 VA
Nominal output voltage	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.			
Nominal frequency	50 / 60 Hz			
Max.(rated) output current	39.4 Aa.c.@ 127/220 Va.c., 37.7 Aa.c.@ 133/230 Va.c.	52.5 Aa.c.@ 127/220 Va.c., 50.2 Aa.c.@ 133/230 Va.c.	65.6 Aa.c.@ 127/220 Va.c., 62.8 Aa.c.@ 133/230 Va.c.	78.7 Aa.c.@ 127/220 Va.c., 75.3 Aa.c.@ 133/230 Va.c.
AC input (for Grid port and Gen port)				
Nominal voltage	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.			
Grid max.(rated) continuous current	78.8 Aa.c.@ 127/220 Va.c., 75.4 Aa.c.@ 133/230 Va.c.	105 Aa.c.@ 127/220 Va.c., 100.4 Aa.c.@ 133/230 Va.c.	131.2 Aa.c.@ 127/220 Va.c., 125.6 Aa.c.@ 133/230 Va.c.	152 Aa.c.@ 127/220 Va.c., 152 Aa.c.@ 133/230 Va.c.
Gen max.(rated) continuous current	39.4 Aa.c.@ 127/220 Va.c., 37.7 Aa.c.@ 133/230 Va.c.	52.5 Aa.c.@ 127/220 Va.c., 50.2 Aa.c.@ 133/230 Va.c.	65.6 Aa.c.@ 127/220 Va.c., 62.8 Aa.c.@ 133/230 Va.c.	78.7 Aa.c.@ 127/220 Va.c., 75.3 Aa.c.@ 133/230 Va.c..
Nominal frequency	50 / 60 Hz			
General				
Power factor range	-0.8, ..., 1, ..., +0.8			
Protective class	I			
Ingress protection	IP 66			
Operating temperature Range	-25°C, ..., +60 °C			
Max. operation altitude	4000 m			