



Product Service

Compliance Document

No. D 086470 0202 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

Product: **Converter**
Hybrid Inverter

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(Ming Gu)



Product Service

Compliance Document

No. D 086470 0202 Rev. 02

Model(s):

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



Product Service

Compliance Document

No. D 086470 0202 Rev. 02

Parameters:

Model	S6-EH3P29.9K-H	S6-EH3P30K-H	S6-EH3P30K-H-LV
PV-Input			
Max. input voltage d.c.	1000 V		
Mppt voltage range d.c.	150-850 V		
Max. input current d.c.	3x40 A		
Isc PV (absolute maximum) d.c.	3x60 A		
Battery			
Battery type	Li-ion		
Battery Voltage range d.c.	150-800V		
Max. Charge/discharge current d.c.	2X70A /2X70A	2X70A /2X70A	2X70A /2X70A
AC-Output (Back-up)			
Max. /Rated output power a.c.	29900 W	30000 W	30000 W
Nominal output voltage a.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.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	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 a.c.	29900 VA	30000 VA	30000 VA
Nominal output voltage a.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.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	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.
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.	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.	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	50/60Hz		



Product Service

Compliance Document

No. D 086470 0202 Rev. 02

Model	S6-EH3P37.5K-H	S6-EH3P40K-H	S6-EH3P50K-H
PV-Input			
Max. input voltage d.c.	1000 V		
Mppt voltage range d.c.	150-850 V		
Max. input current d.c.	4x40 A		
Isc PV (absolute maximum) d.c.	4x60 A		
Battery			
Battery type	Li-ion		
Battery Voltage range d.c.	150-800V		
Max. Charge/discharge current d.c.	2X70A /2X70A	2X70A /2X70A	2X70A /2X70A
AC-Output (Back-up)			
Max. /Rated output power a.c.	37500 W	40000 W	50000 W
Nominal output voltage a.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.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	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 a.c.	37500 VA	40000 VA	50000 VA
Nominal output voltage a.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.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	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.
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.	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.



Product Service

Compliance Document

No. D 086470 0202 Rev. 02

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	50/60Hz		



Product Service

Compliance Document

No. D 086470 0202 Rev. 02

Model	S6-EH3P30K-H-ND	S6-EH3P40K-H-ND	S6-EH3P50K-H-ND
PV-Input			
Max. input voltage d.c.	1000 V		
Mppt voltage range d.c.	150-850 V		
Max. input current d.c.	3x40 A	4x40 A	
Isc PV (absolute maximum) d.c.	3x60 A	4x60 A	
Battery			
Battery type	Li-ion		
Battery Voltage range d.c.	150-800V		
Max. Charge/discharge current d.c.	2X70A /2X70A	2X70A /2X70A	2X70A /2X70A
AC-Output (Back-up)			
Max. /Rated output power a.c.	30000 W	40000 W	50000 W
Nominal output voltage a.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.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	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 a.c.	30000 VA	40000 VA	50000 VA
Nominal output voltage a.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.	3/N/PE 220/380 Va.c., 3/N/PE 230/400 Va.c.
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	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.
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.	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	50/60Hz		



Product Service

Compliance Document

No. D 086470 0202 Rev. 02

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 d.c.	1000 V			
Mppt voltage range d.c.	150-850 V			
Max. input current d.c.	3x40 A			
Isc PV (absolute maximum) d.c.	3x60 A			
Battery				
Battery type	Li-ion			
Battery Voltage range d.c.	150-800V			
Max. Charge/discharge current d.c.	2X70A /2X70A	2X70A /2X70A	2X70A /2X70A	2X70A /2X70A
AC-Output (Back-up)				
Max. /Rated output power a.c.	15000 W	20000 W	25000 W	30000 W
Nominal output voltage a.c.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	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 a.c.	15000 VA	20000 VA	25000 VA	30000 VA
Nominal output voltage a.c.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.	3/N/PE 127/220 Va.c., 3/N/PE 133/230 Va.c.
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	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.
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.	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	50/60Hz			



Product Service

Compliance Document

No. D 086470 0202 Rev. 02

Model	S6-EH3P29.9K-H-AU	S6-EH3P30K-H-AU	S6-EH3P40K-H-AU	S6-EH3P50K-H-AU
PV-Input				
Max. input voltage d.c.	1000 V			
Mppt voltage range d.c.	150-850 V			
Max. input current d.c.	3x40 A		4x40 A	
Isc PV (absolute maximum) d.c.	3x45 A		4x45 A	
Battery				
Battery type	Li-ion			
Battery Voltage range d.c.	150-800V			
Max. Charge/discharge current d.c.	2X70A /2X70A	2X70A /2X70A	2X70A /2X70A	2X70A /2X70A
AC-Output (Back-up)				
Max. /Rated output power a.c.	29900 W	30000 W	40000 W	50000 W
Nominal output voltage a.c.	3/N/PE 230/400 Va.c.	3/N/PE 230/400 Va.c.	3/N/PE 230/400 Va.c.	3/N/PE 230/400 Va.c.
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	43.2 Aa.c.@ 230/400 Va.c.	43.3 Aa.c.@ 230/400 Va.c.	57.7 Aa.c.@ 230/400 Va.c.	72.2 Aa.c.@ 230/400 Va.c.
AC-Output (Grid side)				
Max. /Rated apparent output power a.c.	29900 VA	30000 VA	40000 VA	50000 VA
Nominal output voltage a.c.	3/N/PE 230/400 Va.c.	3/N/PE 230/400 Va.c.	3/N/PE 230/400 Va.c.	3/N/PE 230/400 Va.c.
Nominal Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Max. /Rated output current a.c.	43.2 Aa.c.@ @ 230/400 Va.c.	43.3Aa.c.@ @ 230/400 Va.c.	57.7 Aa.c.@ @ 230/400 Va.c.	72.2 Aa.c.@ @ 230/400 Va.c.
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.	3/N/PE 230/400 Va.c.			
Grid max.(rated) continuous current	86.4 Aa.c.@ 230/400 Va.c.	86.6Aa.c.@ 230/400 Va.c.	115.4Aa.c.@ 230/400 Va.c..	144.4 Aa.c.@ 230/400 Va.c.
Gen max.(rated) continuous current	43.2 Aa.c.@ 230/400 Va.c.	43.3 Aa.c.@ 230/400 Va.c.	57.7 Aa.c.@ 230/400 Va.c.	72.2 Aa.c.@ 230/400 Va.c.
Nominal Frequency	50/60Hz			



Product Service

Compliance Document

No. D 086470 0202 Rev. 02

Model	S6-EH3P49K-H-ND	S6-EH3P29.9K-H-ND
PV-Input		
Max. input voltage d.c.	1000 V	
Mppt voltage range d.c.	150-850 V	
Max. input current d.c.	4x40 A	3x40 A
Isc PV (absolute maximum) d.c.	4x60 A	3x60 A
Battery		
Battery type	Li-ion	
Battery Voltage range d.c.	150-800V	
Max. Charge/discharge current d.c.	2X70A / 2X70A	
AC-Output (Back-up)		
Max. /Rated output power a.c.	49000W	29900W
Nominal output voltage a.c.	3/N/PE 220/380 V 3/N/PE 230/400 V	
Nominal Frequency	50/60Hz	
Max. /Rated output current a.c.	74.5 A / 70.7 A	45.4 A / 43.2 A
AC-Output (Grid side)		
Max. /Rated apparent output power a.c.	49000 VA	29900 VA
Nominal output voltage a.c.	3/N/PE 220/380 V 3/N/PE 230/400 V	
Nominal Frequency	50/60Hz	
Max. /Rated output current a.c.	74.5 A / 70.7 A	45.4 A / 43.2 A
Power factor range	-0.8...1...+ 0.8	
Protective class	I	
Ingress protection	IP66	
Ambient temperature	-25...+60°C	
AC-Input (For grid port and Gen port)		
Nominal voltage a.c.	3/N/PE 220/380 V 3/N/PE 230/400 V	
Grid max.(rated) continuous current	149 A / 141.4 A	90.8 A / 86.4 A
Gen max.(rated) continuous current	74.5 A / 70.7 A	45.4 A / 43.2 A
Nominal Frequency	50/60Hz	



Product Service

Compliance Document

No. D 086470 0202 Rev. 02

Model	S6-EH3P30K-H-ND-AU	S6-EH3P40K-H-ND-AU	S6-EH3P50K-H-ND-AU
PV-Input			
Max. input voltage d.c.	1000 V		
Mppt voltage range d.c.	150-850 V		
Max. input current d.c.	3x40 A	4x40 A	4x40 A
Isc PV (absolute maximum) d.c.	3x45 A	4x45 A	4x45 A
Battery			
Battery type	Li-ion		
Battery Voltage range d.c.	150-800V		
Max. Charge/discharge current d.c.	2X70A /2X70A	2X70A /2X70A	2X70A /2X70A
AC-Output (Back-up)			
Max. /Rated output power a.c.	30000 W	40000 W	50000 W
Nominal output voltage a.c.	3/N/PE 230/400 V	3/N/PE 230/400 V	3/N/PE 230/400 V
Nominal Frequency	50Hz	50Hz	50Hz
Max. /Rated output current a.c.	43.3 A	57.7 A	72.2 A
AC-Output (Grid side)			
Max. /Rated apparent output power a.c.	30000 VA	40000 VA	50000 VA
Nominal output voltage a.c.	3/N/PE 230/400 V	3/N/PE 230/400 V	3/N/PE 230/400 V
Nominal Frequency	50Hz	50Hz	50Hz
Max. /Rated output current a.c.	43.3 A	57.7 A	72.2 A
Power factor range	-0.8...1...+ 0.8		
Protective class/Over voltage category	I/II(PV&BAT), III (GRID, Back up&Gen)		
Ingress protection	IP66		
Ambient temperature	-25...+60°C		
AC-Input (For grid port and Gen port)			
Nominal voltage a.c.	3/N/PE 230/400 V		
Grid max.(rated) continuous current	86.6 A	115.4 A	144.4 A
Gen max.(rated) continuous current	43.3 A	57.7 A	72.2 A
Nominal Frequency	50Hz		

Tested according to:

IEC 61000-6-2:2016
 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