



Product Service

# CERTIFICATE

No. B 086470 0185 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

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

**Test report no.:** 50409230013241-00

**Valid until:** 2029-04-10

**Date,** 2024-04-11

( 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

**Parameters:**

Please see pages 3 to 4

**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.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 127/220 Va.c.,<br>3/N/PE 133/230 Va.c.          |
| Nominal frequency                     | 50/60 Hz                                               |                                                        |                                                        |
| Max.(rated) output current            | 45.4 Aa.c.@ 220/380 Va.c.<br>43.2 Aa.c.@ 230/400 Va.c. | 45.6 Aa.c.@ 220/380 Va.c.<br>43.3 Aa.c.@ 230/400 Va.c. | 78.7 Aa.c.@ 127/220 Va.c.<br>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.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 127/220 Va.c.,<br>3/N/PE 133/230 Va.c.          |
| Nominal frequency                     | 50/60 Hz                                               |                                                        |                                                        |
| Max.(rated) output current            | 45.4 Aa.c.@ 220/380 Va.c.<br>43.2 Aa.c.@ 230/400 Va.c. | 45.6 Aa.c.@ 220/380 Va.c.<br>43.3 Aa.c.@ 230/400 Va.c. | 78.7 Aa.c.@ 127/220 Va.c.<br>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.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.          | 3/N/PE 127/220 Va.c.,<br>3/N/PE 133/230 Va.c.          |
| Grid max.(rated) continuous current   | 90.8 Aa.c.@ 220/380 Va.c.<br>86.4 Aa.c.@ 230/400 Va.c. | 91.2 Aa.c.@ 220/380 Va.c.<br>86.6 Aa.c.@ 230/400 Va.c. | 152 Aa.c.@ 127/220 Va.c.<br>152 Aa.c.@ 133/230 Va.c.   |
| Gen max.(rated) continuous current    | 45.4 Aa.c.@ 220/380 Va.c.<br>43.2 Aa.c.@ 230/400 Va.c. | 45.6 Aa.c.@ 220/380 Va.c.<br>43.3 Aa.c.@ 230/400 Va.c. | 78.7 Aa.c.@ 127/220 Va.c.<br>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                                             |
|----------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| <b>PV input</b>                              |                                                          |                                                          |                                                          |
| 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                                                      |
| <b>Battery input</b>                         |                                                          |                                                          |                                                          |
| 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.                                               |
| <b>AC output (Back-up)</b>                   |                                                          |                                                          |                                                          |
| Max.(rated) output power                     | 37500 W                                                  | 40000 W                                                  | 50000 W                                                  |
| Nominal output voltage                       | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            |
| Nominal frequency                            | 50/60 Hz                                                 |                                                          |                                                          |
| Max.(rated) output current                   | 57.0 Aa.c.@ 220/380 Va.c.<br>54.1 Aa.c.@ 230/400 Va.c.   | 60.8 Aa.c.@ 220/380 Va.c.<br>57.7 Aa.c.@ 230/400 Va.c.   | 76.0 Aa.c.@ 220/380 Va.c.<br>72.2 Aa.c.@ 230/400 Va.c.   |
| <b>AC output (Grid side)</b>                 |                                                          |                                                          |                                                          |
| Max.(rated) apparent output power            | 37500 VA                                                 | 40000 VA                                                 | 50000 VA                                                 |
| Nominal output voltage                       | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            |
| Nominal frequency                            | 50/60 Hz                                                 |                                                          |                                                          |
| Max.(rated) output current                   | 57.0 Aa.c.@ 220/380 Va.c.<br>54.1 Aa.c.@ 230/400 Va.c.   | 60.8 Aa.c.@ 220/380 Va.c.<br>57.7 Aa.c.@ 230/400 Va.c.   | 76.0 Aa.c.@ 220/380 Va.c.<br>72.2 Aa.c.@ 230/400 Va.c.   |
| <b>AC input (for Grid port and Gen port)</b> |                                                          |                                                          |                                                          |
| Nominal voltage                              | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            | 3/N/PE 220/380 Va.c.,<br>3/N/PE 230/400 Va.c.            |
| Grid max.(rated) continuous current          | 114.0 Aa.c.@ 220/380 Va.c.<br>108.2 Aa.c.@ 230/400 Va.c. | 121.6 Aa.c.@ 220/380 Va.c.<br>115.4 Aa.c.@ 230/400 Va.c. | 152.0 Aa.c.@ 220/380 Va.c.<br>144.4 Aa.c.@ 230/400 Va.c. |
| Gen max.(rated) continuous current           | 57.0 Aa.c.@ 220/380 Va.c.<br>54.1 Aa.c.@ 230/400 Va.c.   | 60.8 Aa.c.@ 220/380 Va.c.<br>57.7 Aa.c.@ 230/400 Va.c.   | 76.0 Aa.c.@ 220/380 Va.c.<br>72.2 Aa.c.@ 230/400 Va.c.   |
| Nominal frequency                            | 50/60 Hz                                                 |                                                          |                                                          |
| <b>General</b>                               |                                                          |                                                          |                                                          |
| 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                                                   |                                                          |                                                          |