

# Solis-1P3K-4G

## Solis 4G Single Phase Inverters



### Features:

- ▶ Solis 1P 4G Single Phase Range
- ▶ High frequency switching technology - Smaller, smarter
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Intergrated Export Power Manager(EPM)
- ▶ Over 97.8% Max. efficiency
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-Android and Apple App store available

**Model:**  
Solis-1P3K-4G

### Datasheet

| Model Name                               | Solis-1P3K-4G  |
|--|--|
| <b>Input DC</b>                          |  |
| Max. DC input power(kW)                  | 3.5  |
| Max. DC input voltage(V)                 | 600  |
| Start-up voltage(V)                      | 120  |
| MPPT voltage range(V)                    | 90-520   |
| Max. input current(A/B)                  | 11A+11A  |
| Max. Short Circuit current for each MPPT | 17.2A+17.2A  |
| MPPT number/Max input strings number     | 2/A:1; B:1   |
| <b>Output AC</b>                         |  |
| Rated output power(kW)                   | 3  |
| Max. apparent output power(kVA)          | 3.3  |
| Max. output power(kW)                    | 3.3  |
| Rated grid voltage(V)                    | 220/230  |
| Rated grid frequency(Hz)                 | 50/60  |
| Grid frequency range(Hz)                 | 47-52 or 57-62   |
| Operation phase                          | Single Phase   |
| Rated grid output current(A)             | 13.6/13  |
| Max. output current(A)                   | 15.7   |
| Power Factor (at rated output power)     | 0.8leading... 0.8lagging   |
| THDi (at rated output power)             | <3%  |
| DC injection current                     | <0.5%In  |
| <b>Efficiency</b>                        |  |
| Max. efficiency                          | 97.8%  |
| EU efficiency                            | 97.1%  |
| MPPT efficiency                          | >99.5%   |
| <b>Protection</b>                        |  |
| DC reverse-polarity protection           | Yes  |
| Short circuit protection                 | Yes  |
| Output over current protection           | Yes  |
| Output over voltage protection           | Yes  |
| Insulation resistance monitoring         | Yes  |
| Residual current detection               | Yes  |
| Surge protection                         | Yes  |
| Grid monitoring                          | Yes  |
| Islanding protection                     | Yes  |
| Temperature protection                   | Yes  |
| Integrated DC switch                     | Optional   |
| <b>General Data</b>                      |  |
| Dimensions(mm)                           | 310W*543H*160D   |
| Weight (kg)                              | 11.5   |
| Topology                                 | Transformer less   |
| Self consumption (night)                 | <1W (Night)  |
| Operating ambient temperature range      | -25~60°C   |
| Relative humidity                        | 0~100%   |
| Ingress protection                       | IP65   |
| Noise emission(typical)                  | <20dBA   |
| Cooling concept                          | Natural convection   |
| Max. operation altitude                  | 4000m  |
| Designed lifetime                        | >20 years  |
| Grid connection standard                 | EN50438, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, G98, G99 |
| Saftey/EMC standard                      | IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3                |
| <b>Features</b>                          |  |
| DC connection                            | MC4  |
| AC connection                            | IP67 rated plug  |
| Display                                  | LCD, 2x20 Z.   |
| Communication connections                | 4 pins RS485 connector   |
| Monitoring                               | WiFi or GPRS   |
| Warranty                                 | 5/ 10/ 15/ 20 Years  |