

# Solis-1P(7-10)K-4G

Solis 4G Single Phase Inverters



## Features:

- ▶ Solis 1P 4G Single Phase Range
- ▶ High frequency switching technology - Smaller, smarter
- ▶ Three MPPT design with precise MPPT algorithm
- ▶ Over 98.1% Max. efficiency
- ▶ RS485, WiFi/ GPRS (optional) interface
- ▶ WiFi monitoring available-Android and Apple App store available
- ▶ 5 years standard warranty, 20 years optional upgrade



## Model:

Solis-1P7K-4G

Solis-1P9K-4G

Solis-1P8K-4G

Solis-1P10K-4G

## Datasheet

| Model Name                           | Solis-1P7K-4G   | Solis-1P8K-4G | Solis-1P9K-4G | Solis-1P10K-4G |
|--------------------------------------|---|---------------|---------------|----------------|
| <b>Input DC</b>                      |   |               |               |                |
| Max. DC input power(kW)              | 8   | 9.2           | 10.8          | 11.5           |
| Max. DC input voltage(V)             | 600   |               |               |                |
| Start-up voltage(V)                  | 120   |               |               |                |
| MPPT voltage range(V)                | 100-500   |               |               |                |
| Max. input current(A/B/C)            | 10A+10A+10A   |               |               |                |
| MPPT number/Max input strings number | 3/A:1; B:1; C:1   |               |               |                |
| <b>Output AC</b>                     |   |               |               |                |
| Rated output power(kW)               | 7   | 8             | 9             | 10             |
| Max. apparent output power(kVA)      | 7.7   | 8.8           | 9.9           | 10             |
| Max. output power(kW)                | 7.7   | 8.8           | 9.9           | 10             |
| 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)         | 31.8/30.4   | 36.4/34.8     | 40.9/39.1     | 45.5/43.5      |
| Max. output current(A)               | 33.7  | 36.6          | 41.3          | 45.9           |
| Power Factor (at rated output power) | 0.8leading ... 0.8lagging   |               |               |                |
| THDi (at rated output power)         | <1.5%   |               |               |                |
| DC injection current                 | <0.5%In   |               |               |                |
| <b>Efficiency</b>                    |   |               |               |                |
| Max. efficiency                      | 98.1%   |               |               |                |
| EU efficiency                        | 97.6%   |               |               |                |
| MPP Tefficiency                      | >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>                  |   |               |               |                |
| Dimensins(mm)                        | 333W*573H*249D  |               |               |                |
| Weight (kg)                          | 18  |               |               |                |
| Topology                             | Transformerless   |               |               |                |
| Self consumption (night)             | <1W (Night)   |               |               |                |
| Operating ambient temperature range  | -25~60°C  |               |               |                |
| Relative humidity                    | 0~100%  |               |               |                |
| Ingress protection                   | IP65  |               |               |                |
| Noise emission(typical)              | <30 dBA   |               |               |                |
| Cooling concept                      | Natural convection  |               |               |                |
| Max. operation altitude              | 4000m   |               |               |                |
| Designed lifetime                    | >20 years   |               |               |                |
| Grid connection standard             | EN50438, G83/2, G59/3, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, G99 |               |               |                |
| Safty/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 years (extend to 20 years)  |               |               |                |