

# Solis-3P10K-4G

## Solis 4G Three Phase Inverters



### Features:

- ▶ Solis 3P 4G Three Phase Range
- ▶ 160V-850V MPPT voltage range-ultra low startup
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ THDi<1.5%, low harmonic distortion against grid
- ▶ Over 98.7% Max. efficiency
- ▶ Multiple protections levels
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-Android and Apple App store available
- ▶ 5 years standard warranty, 20 years optional upgrade



### Model:

Solis-3P10K-4G

## Datasheet

| Model Name                               | Solis-3P10K-4G                                   |
|--|--|
| <b>Input DC</b>                          |  |
| Max. DC input power(kW)                  | 12   |
| Max. DC input voltage(V)                 | 1000   |
| Start-up voltage(V)                      | 180  |
| MPPT voltage range(V)                    | 160-850  |
| 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)                   | 10   |
| Max. apparent output power(kVA)          | 11   |
| Max. output power(kW)                    | 11   |
| Rated grid voltage(V)                    | 400  |
| Rated grid frequency(Hz)                 | 50/60  |
| Grid frequency range(Hz)                 | 47-52 or 57-62                                   |
| Operation phase                          | Three Phase                                      |
| Rated grid output current(A)             | 14.4   |
| Max. output current(A)                   | 15.9   |
| 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                          | 98.7%  |
| EU efficiency                            | 98.1%  |
| 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>                      |  |
| Dimensins(mm)                            | 310W*563H*219D                                   |
| 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, AS4777, VDE0126-1-1, IEC61727, G98, G99 |
| Safty/EMC standard                       | IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-3  |
| <b>Features</b>                          |  |
| DC connection                            | MC4  |
| AC connection                            | Terminal connectors                              |
| Display                                  | LCD, 2×20 Z.                                     |
| Communication connections                | 4 pins RS485 connector                           |
| Monitoring                               | WiFi or GPRS                                     |
| Warranty                                 | 5 years (extend to 20 years)                     |