

# Solis-3P10K-4G-LV

Solis 4G Three Phase Inverters



## Features:

- ▶ Solis 3P 4G Three Phase Range
- ▶ 160V-500V MPPT voltage range-ultra low startup
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ THDi<1.5%, low harmonic distortion against grid
- ▶ Over 98% 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:

220V Solis-3P10K-4G-LV

## Datasheet

| Model Name                              | Solis-3P10K-4G-LV                                                         |
|-----------------------------------------|---------------------------------------------------------------------------|
| Input DC                                |                                                                           |
| Max. DC input power(kW)                 | 12                                                                        |
| Max. DC input voltage(V)                | 1000                                                                      |
| Start-up voltage(V)                     | 180                                                                       |
| MPPT voltage range(V)                   | 160-500                                                                   |
| Max. input current(A/B)                 | 22A+22A                                                                   |
| Max Short Circuit current for each MPPT | 34.3A+34.3A                                                               |
| MPPT number/Max input strings number    | 2/4                                                                       |
| Output AC                               |                                                                           |
| Rated output power(kW)                  | 10                                                                        |
| Max. apparent output power(kVA)         | 11                                                                        |
| Max. output power(kW)                   | 11                                                                        |
| Rated grid voltage(V)                   | 208/220/240                                                               |
| Rated grid frequency(Hz)                | 50/60                                                                     |
| Grid frequency range(Hz)                | 47-52                                                                     |
| Operation phase                         | Three Phase                                                               |
| Rated grid output current(A)            | 26.2                                                                      |
| Max. output current(A)                  | 28.8                                                                      |
| Power Factor (at rated output power)    | 0.8 leading ... 0.8 lagging                                               |
| THDi (at rated output power)            | <1.5%                                                                     |
| DC injection current                    | <0.5%In                                                                   |
| Efficiency                              |                                                                           |
| Max. efficiency                         | 98%                                                                       |
| EU efficiency                           | 97.5%                                                                     |
| MPPT efficiency                         | >99.5%                                                                    |
| Protection                              |                                                                           |
| 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                                                                  |
| General Data                            |                                                                           |
| Dimensins(mm)                           | 310W*563H*219D                                                            |
| Weight (kg)                             | 19.8                                                                      |
| 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                         | Intelligent redundant fan-cooling                                         |
| 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, EN61000-6-2, EN61000-6-3, EN61000-6-4 |
| Features                                |                                                                           |
| 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)                                              |