

1P 4G

3kW

Solis 1P 4G Single Phase Inverter

- ▶ 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 98.1% Max.efficiency
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-iphone and android app available
- ▶ 5 years standard warranty, 20 years optional upgrade



Model:

Solis-1P3K-4G

Features:

| | | | | | |
|-----------------------------|------------------------------------|------------------|------|-----------------------------------|-------------------------------------------------------------------------------|
| EPM Export power manager | HF SWITCH High switch frequency | AFCI Optional | IP65 | WiFi/GPRS Real time monitoring | Available on the iPhone App Store Available on the Android App Store |
|-----------------------------|------------------------------------|------------------|------|-----------------------------------|-------------------------------------------------------------------------------|

Datasheet

| Model | Solis-1P3K-4G |
|--------------------------------------|------------------------------------------------------------------------|
| Energy Source | PV |
| Input Side(DC) | |
| 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 per MPPT(A/B) | 11A+11A |
| MPPT number/Max input strings number | 2/2 |
| Output Side (AC) | |
| Rated output power(kW) | 3 |
| Max. apparent output power(kVA) | 3.3 |
| Max. output power(kW) | 3.3 |
| Rated grid voltage(V _{LL}) | 220/230 |
| Rated grid frequency(Hz) | 50/60 |
| Operation phase | Single |
| Rated grid output current(A) | 13.6/13 |
| Max. output current(A) | 15.7 |
| Power Factor (at rated output power) | 0.8 leading ... 0.8 lagging |
| THDi (at rated output power) | <1.5% |
| DC injection current(mA) | <0.5%I _n |
| Grid frequency range(Hz) | 47-52 or 57-62 |
| Efficiency | |
| Max. efficiency | 97.8% |
| EU efficiency | 97.1% |
| 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 |
| Islanding protection | Yes |
| Temperature protection | Yes |
| Integrated DC switch | Optional |
| General Data | |
| Dimensions(mm) | 310W*543H*160D |
| Weight(kg) | 11.5 |
| Topology | Transformerless |
| Self consumption (night) | <1W(Night) |
| Operating ambient temperature range | -25~60°C |
| 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 |
| Relative humidity | 0~100% |
| Safety/EMC standard | IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3 |
| Features | |
| DC connection | MC-4 mateable |
| AC connection | IP67 rated plug |
| Display | LCD,2×20 Z. |
| Communication connections | 4 pins RS485 connector |
| Warranty | 5 years standard (extend to 20 years) |