

Single 4G

1kW
-
5kW

4G

All NEW Solis Series

Solis 4G Single Phase Inverter

- ▶ All New Solis 4G Single Phase Range
- ▶ All New Design – Smaller, Lighter and Smarter
- ▶ 4G Model range extended to include 6kW- 10kW
- ▶ Dual and now Three MPPT options available
- ▶ Built-in Export power management
- ▶ High Frequency Switching - Significantly reduces inductance loss and noise levels
- ▶ WiFi and GPRS monitoring available---iphone and android app available
- ▶ 5 years standard warranty, 20 years optional upgrade



Model:

| | | |
|-----------------|-----------------|------------------|
| Solis-1P1K-4G | Solis-1P1.5K-4G | Solis-1P2K-4G |
| Solis-1P2.5K-4G | Solis-1P3K-4G | Solis-1P3K-4G-ST |
| Solis-1P3.6K-4G | Solis-1P4K-4G | Solis-1P4.6K-4G |
| Solis-1P5K-4G | | |

Features:

| | | | | | |
|-----------------------------|------------------------------------|------------------|----------------|-----------------------------------|------------------------------------------------------------------------------|
| EPM Export power manager | HF SWITCH High switch frequency | AFCI Optional | Weight 11kg | WiFi/GPRS Real time monitoring | Available on the iPhone App Store Available on the iPhone App Store |
|-----------------------------|------------------------------------|------------------|----------------|-----------------------------------|------------------------------------------------------------------------------|

Datasheet

| Model | Solis-1P1K-4G | Solis-1P1.5K-4G | Solis-1P2K-4G | Solis-1P2.5K-4G | Solis-1P3K-4G-ST | Solis-1P3K-4G | Solis-1P3.6K-4G | Solis-1P4K-4G | Solis-1P4.6K-4G | Solis-1P5K-4G |
|--------------------------------------|------------------------------------------------------------------------|-----------------|---------------|-----------------|------------------|---------------|-----------------|---------------|-----------------|---------------|
| Energy Source | PV | | | | | | | | | |
| Input Side(DC) | | | | | | | | | | |
| Max. DC input power(kW) | 1.2 | 1.8 | 2.3 | 3 | 3.5 | 3.5 | 4.2 | 4.6 | 5.3 | 5.8 |
| Max. DC input voltage(V) | 550 | | | | 600 | | | | | |
| Start-up voltage(V) | 60 | | | | 120 | | | | | |
| MPPT voltage range(V) | 50–450 | | | | 100–500 | | | | | |
| Max. input current(A) | 11A | | | | | 11A+11A | | | | |
| MPPT number/Max input strings number | 1/1 | | | | | 2/2 | | | | |
| Output Side (AC) | | | | | | | | | | |
| Rated output power(kW) | 1 | 1.5 | 2 | 2.5 | 3 | 3 | 3.6 | 4 | 4.6 | 5 |
| Max. apparent output power(kVA) | 1.1 | 1.7 | 2.2 | 2.8 | 3.3 | 3.3 | 4 | 4.4 | 5 | 5.5 |
| Max. output power(kW) | 1.1 | 1.7 | 2.2 | 2.8 | 3.3 | 3.3 | 4 | 4.4 | 5 | 5.5 |
| Rated grid voltage(V) | 230 | | | | | | | | | |
| Grid voltage range(V) | 160-285 | | | | | | | | | |
| Rated grid frequency(Hz) | 50/60 | | | | | | | | | |
| Operation phase | Single | | | | | | | | | |
| Rated grid output current(A) | 4.3 | 6.5 | 8.7 | 10.9 | 13 | 13 | 15.7 | 17.4 | 20 | 21.7 |
| Max. output current(A) | 5.2 | 8.1 | 10.5 | 13.3 | 15.7 | 15.7 | 16 | 21 | 23.8 | 25 |
| Power Factor (at rated output power) | 0.8...1...0.8 | | | | | | | | | |
| THDi (at rated output power) | <1.5% | | | | | | | | | |
| DC injection current(mA) | <20 | | | | | | | | | |
| Grid frequency range(Hz) | 47–52 or 57–62 | | | | | | | | | |
| Efficiency | | | | | | | | | | |
| Max. efficiency | 97.5% | | | 97.8% | | | | 98.1% | | |
| EU efficiency | 96.8% | | | 97.1% | | | | 97.3% | | |
| MPPTefficiency | >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 | | | | | | | | | | |
| Dimensins(mm) | 310W*543H*160D (mm) | | | | | | | | | |
| Weight(kg) | 11 | | | | | 11.5 | | | | |
| Topology | Transformerless | | | | | | | | | |
| Self consumption (night) | <1W(Night) | | | | | | | | | |
| Operating ambient temperature range | -25~60℃ | | | | | | | | | |
| Ingress protection | IP65 | | | | | | | | | |
| Noise emission{typical} | <30 dBA | | | | | | | | | |
| Cooling concept | Natural convection | | | | | | | | | |
| Max.operation altitude | 4000m | | | | | | | | | |
| Designed lifetime | >20years | | | | | | | | | |
| Grid connection standard | EN50438, G83/2, G59/3, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105 | | | | | | | | | |
| Relative humidity | 0~100% | | | | | | | | | |
| Safty/EMC standard | IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3 | | | | | | | | | |
| Features | | | | | | | | | | |
| DC connection | MC-4mateable | | | | | | | | | |
| AC connection | Ip67rated plug | | | | | | | | | |
| Display | LCD,2×20 Z. | | | | | | | | | |
| Communication connections | 4 pins RS485 connector | | | | | | | | | |
| Warranty | 5 years standard (extend to 20 years) | | | | | | | | | |