

Single 4G

7kW
-
10kW

4G

All NEW Solis Series

Solis 4G Single Phase Inverter

- ▶ All New Solis 4G Single Phase Range
- ▶ All New Design – Smaller, Lighter and Smarter
- ▶ 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-1P7K-4G
Solis-1P10K-4G

Solis-1P8K-4G

Solis-1P9K-4G

Features:

Three
—
MPPT

HF SWITCH
—
High switch
frequency

Weight
—
18kg

AFCI
—
Optional

IP65

Available on the iPhone
App Store
—
Available on the iPhone
App Store

Datasheet

| Model | Solis-1P7K-4G | Solis-1P8K-4G | Solis-1P9K-4G | Solis-1P10K-4G |
|--------------------------------------|--|---------------|---------------|----------------|
| Energy Source | PV | | | |
| Input Side(DC) | | | | |
| 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) | 10A+10A+10A | | | |
| MPPT number/Max input strings number | 3/3 | | | |
| Output Side (AC) | | | | |
| 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) | 230 | | | |
| Grid voltage range(V) | 160-285 | | | |
| Rated grid frequency(Hz) | 50/60 | | | |
| Operation phase | single | | | |
| Rated grid output current(A) | 30.4 | 34.8 | 39.1 | 43.5 |
| Max. output current(A) | 33.7 | 36.6 | 41.3 | 45.9 |
| 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 | 98.1% | | | |
| EU efficiency | 97.6% | | | |
| 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) | 333W*573H*249D (mm) | | | |
| Weight(kg) | 18 | | | |
| 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 | >20years | | | |
| 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-4mateable | | | |
| AC connection | IP67rated plug | | | |
| Display | LCD,2×20 Z. | | | |
| Communication connections | 4 pins RS485 connector | | | |
| Warranty | 5 years standard (extend to 20 years) | | | |