

Solis-1P(3.6-5)K-4G-US

Solis Single Phase US Inverters



Features:

- ▶ Max. efficiency 98.1% (CEC efficiency 97.3%)
- ▶ CA Rule 21 compliant and UL 1741 SA Certified
- ▶ Sunspec protocol with cellular and WiFi communication
- ▶ Built-in Sunspec certified module level rapid shutdown transmitter
- ▶ Optional Built-in Revenue Grade Meter, ANSI C12.20-2010 compliance
- ▶ Fast and dynamic MPPTs and industry-leading DC voltage range
- ▶ AFCI protection, proactively reduces fire risk
- ▶ 10 years standard warranty with extension options

Model:

Solis-1P3.6K-4G-US
Solis-1P5K-4G-US



Ordering: Solis-1P(3.6-5)K-4G-US

- SPRT (SunSpec MLRSD Transmitter)
- RGM-SPRT (Revenue Grade Meter and Transmitter)
- RSS (Tigo MLRSD Transmitter)
- RGM-RSS (Revenue Grade Meter and Tigo MLRSD Transmitter)

Datasheet

| Model Name | Solis-1P3.6K-4G-US | Solis-1P5K-4G-US |
|------------|--------------------|------------------|
|------------|--------------------|------------------|

Input DC

| | | |
|---------------------------------------|-----------------|------|
| Recommended max. PV power | 4 kW | 6 kW |
| Max. input voltage | 600 V | |
| Rated voltage | 330 V | |
| Start-up voltage | 120 V | |
| MPPT voltage range | 90-520 V | |
| Max. input current | 11 A / 11 A | |
| Max. short circuit current | 17.2 A / 17.2 A | |
| MPPT number/Max. input strings number | 2/2 | |

Output AC

| | | |
|-----------------------------------|-----------------------------------|--------|
| Rated output power | 3.6 kW | 5 kW |
| Max. apparent output power | 3.6 kVA | 5 kVA |
| Max. output power | 3.6 kW | 5 kW |
| Rated grid voltage | 1Φ/PE, 240 V / 208 V | |
| Rated grid frequency | 60 Hz | |
| Max. output current for 240V grid | 15.0 A | 20.8 A |
| Max. output current for 208V grid | 17.3 A | 24.0 A |
| Power factor | >0.99 (0.8 leading - 0.8 lagging) | |
| THDi | <3% | |

Efficiency

| | | |
|-----------------|-------|-------|
| Max. efficiency | 97.8% | 98.1% |
| CEC efficiency | 97.1% | 97.3% |

Protection

| | |
|---|--|
| DC reverse-polarity protection | Yes |
| Ground fault monitoring | Yes |
| Anti-islanding protection | Yes |
| Integrated AFCI (DC arc-fault circuit protection) | Yes |
| Integrated DC switch | Yes |
| Rapid shutdown | Built-In Certified Sunspec or Tigo Transmitter |
| Compliant MLRSD Products | TS4-A-F/2F, APSmart RSD-S-PLC |

General Data

| | |
|-------------------------------------|---|
| Dimensions (W*H*D) | 13.9*31.9*6.5 in (353*810*165 mm) |
| Weight | 33.1 lbs (15 kgs) |
| Topology | Transformerless |
| Self consumption (night) | <1 W |
| Relative humidity | 0-100% |
| Operating ambient temperature range | -13°F to 140°F (-25°C to 60°C) |
| Storage environment | -13°F to 176°F (-25°C to 80°C) |
| Ingress protection | TYPE 4X |
| Cooling concept | Natural convection |
| Max. operation altitude | 13,120 ft (4000 m) |
| Compliance | UL 1741, IEEE 1547, UL 1699B, UL 1998, FCC, UL 1741SA, California Rule 21, SRD-UL1741 |

Features

| | |
|---------------|--|
| DC connection | 1 knockout for 3/4" conduit at bottom, side and back, Screw clamp terminal |
| AC connection | 1 knockout for 3/4" conduit at bottom, side and back, OT terminal |
| Display | LCD |
| Communication | RS485, Optional: Cellular, Wi-Fi |