

Solis-1P(6-10)K-4G-US

Solis Single Phase US Inverters

>> Models:

Solis-1P6K-4G-US

Solis-1P7.6K-4G-US

Solis-1P10K-4G-US



Ordering: Solis-1P(6-10)K-4G-US-PLUS

- APST (APS MLRSD Transmitter)
- RSS (Tigo MLRSD Transmitter)



Features:

- Max. efficiency 97.8% (CEC efficiency 97.5%)
- String current up to **14A**
- CA Rule 21 compliant and UL 1741 SB Certified
- Sunspec protocol with option cellular and WiFi
- Integrated module level rapid shutdown transmitter
- Support module level monitoring
- Optional Built-in Revenue Grade Meter, ANSI C12.20-2010 compliance
- Industry-leading 3 and 4 MPPT designs
- AFCI protection, proactively reduces fire risk
- 10 years standard warranty with extension options

DATASHEET**Solis-1P(6-10)K-4G-US**

| Models | 6K | 7.6K | 10K |
|---|--|---------------------|---------------------------|
| Input DC | | | |
| Max. input voltage | 600 V | | |
| Rated voltage | 330 V | | |
| Start-up voltage | 120 V | | |
| MPPT voltage range | 100 - 500 V | | |
| Max. input current | 14 A / 14 A / 14 A | | 14 A / 14 A / 14 A / 14 A |
| Max. short circuit current | 22 A / 22 A / 22 A | | 22 A / 22 A / 22 A / 22 A |
| MPPT number/Max. input strings number | 3/3 | | 4/4 |
| Output AC | | | |
| Rated output power | 6 kW | 7.6 kW | 10 kW |
| Max. apparent output power | 6 kVA | 7.6 kVA | 10 kVA |
| Max. output power | 6 kW | 7.6 kW | 10 kW |
| Rated grid voltage | 1Φ/PE, 240 V / 208 V | | |
| Rated grid frequency | 60 Hz | | |
| Max. output current for 240 V grid | 25 A | 31.7 A | 41.7 A |
| Max. output current for 208 V grid | 28.8 A | 36.5 A | 43.3 A |
| Power factor | >0.99 (0.8 leading - 0.8 lagging) | | |
| THDi | <3% | | |
| Efficiency | | | |
| Max. efficiency | 97.8% | | |
| CEC efficiency | 97.5% | | |
| 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 APS or Tigo Transmitter | | |
| Surge Protection | DC Type III / AC Type III | | |
| Compliant MLRSD Products | TS4-A-F/2F, APSmart RSD-S / RSD-D | | |
| General Data | | | |
| Dimensions (W*H*D) | 13.1*28.8*9.8 in (333*732*249 mm) | | |
| Weight | 45.2 lbs (20.5 kgs) | 45.6 lbs (20.7 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 | UL1741SB, UL1741SA, IEEE 1547-2018, UL1699B, UL1998, FCC Part15 ClassB, California Rule 21, Heco Rule 14H, NEC 690.12-2020, CAN/CSA C22.2107.1-1 | | |
| Features | | | |
| DC connection | 2 knockout for 1"conduit at bottom, 4 knockout for 3/4"conduit at side and back, Screw clamp terminal | | |
| AC connection | 2 knockout for 1"conduit at bottom, 4 knockout for 3/4"conduit at side and back, OT terminal | | |
| Display | LCD | | |
| Communication | RS485, Optional: Cellular, Wi-Fi | | |