

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

Solis Single Phase US Inverters

### >> Models:

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

Solis-1P5K-4G-US



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

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



### Features:

- Max. efficiency 97.7% (CEC efficiency 97.1%)
- 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
- Fast and dynamic MPPTs and industry-leading DC voltage range
- AFCI protection, proactively reduces fire risk
- 10 years standard warranty with extension options

**DATASHEET****Solis-1P(3.6-5)K-4G-US****Models****3.6K****5K****Input DC**

|                                       |             |  |
|---------------------------------------|-------------|--|
| Max. input voltage                    | 600 V       |  |
| Rated voltage                         | 330 V       |  |
| Start-up voltage                      | 120 V       |  |
| MPPT voltage range                    | 90-520 V    |  |
| Max. input current                    | 14 A / 14 A |  |
| Max. short circuit current            | 22 A / 22 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 | 97.3% | 97.7% |
| CEC efficiency  | 96.6% | 97.1% |

**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)                  | 13.9*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                          | 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 | 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   |  |