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

Solis Single Phase US Inverters

>> Models:

Solis-1P6K-4G-US

Solis-1P7K-4G-US

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

Solis-1P8.6K-4G-US

Solis-1P9K-4G-US

Solis-1P10K-4G-US

360° View



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 cellular and WiFi communication
- Built-in module level rapid shutdown transmitter
- Support module lever 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	7K	7.6K	8.6K	9K	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			4*14 A		
Max. short circuit current	22 A / 22 A / 22 A			4*22 A		
MPPT number/Max. input strings number	3/3			4/4		
Output AC						
Rated output power	6 kW	7 kW	7.6 kW	8.6 kW	9 kW	10 kW
Max. apparent output power	6 kVA	7 kVA	7.6 kVA	8.6 kVA	9 kVA	10 kVA
Max. output power	6 kW	7 kW	7.6 kW	8.6 kW	9 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	29.2 A	31.7 A	35.8 A	37.5 A	41.7 A
Max. output current for 208 V grid	28.8 A	33.7 A	36.5 A	41.3 A	43.3 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					

Preliminary