

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

Solis Single Phase Grid-Tied Inverters

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

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)
Required for UL3741
- RSS (Tigo MLRSD Transmitter)
- CCA (Tigo CCA)



360° View

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 240V grid	25 A	31.7 A	41.7 A
Max. output current for 208V 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	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/O, 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		
Noise emission (typical)	<30 dB(A)		
Cooling concept	Natural convection		
Max. operation altitude	13,120 ft (4000 m)		
Compliance	UL1741SB, 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		