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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 1741SB 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-1P7.5K-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)



DATASHEET

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

Models	6K	7.5K	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			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	7.5 kW	7.6 kW	10 kW
Max. apparent output power	6 kVA	7.5 kVA	7.6 kVA	10 kVA
Max. output power	6 kW	7.5 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	31.3 A	31.7 A	41.7 A
Max. output current for 208V grid	28.8 A	36.1 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			
Multi peak scan	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 cooling			Natural cooling with internal fan
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			