

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

Solis Single Phase Grid-Tied Inverters

Features:

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

Models:

Solis-1P3.6K-4G-US / Solis-1P5K-4G-US

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

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



DATASHEET

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	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)	13.9 × 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	
Noise emission (typical)	< 30 dB(A)	
Cooling concept	Natural cooling	
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	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	