

Solis-1P(2.5-6)K-4G-US

Solis 4G Single Phase US Inverters



Features:

- ▶ CA Rule 21 Phase I & II compliant (ready for Phase III) and UL 1741 (SA) certified
- ▶ Sunspec communication protocol with optional cellular and Wi-Fi interface
- ▶ Built-in Sunspec Certified Module Level Rapid Shutdown Transmitter
- ▶ Optional Built-in Revenue Grade Meter, ANSI C12.20-2010 compliance
- ▶ Fast and dynamic MPPTs and industry-leading DC voltage range
- ▶ Integrated Arc Fault Circuit Interrupt (AFCI)
- ▶ 98.1% peak efficiency (97.3% CEC efficiency)
- ▶ 10 years standard warranty with extension options



Model:

Solis-1P2.5K-4G-US

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

Solis-1P4.6K-4G-US

Solis-1P6K2-4G-US

Solis-1P3K-4G-US

Solis-1P4K-4G-US

Solis-1P5K-4G-US

Datasheet

Model	Solis-1P2.5K-4G-US	Solis-1P3K-4G-US	Solis-1P3.6K-4G-US	Solis-1P4K-4G-US	Solis-1P4.6K-4G-US	Solis-1P5K-4G-US	Solis-1P6K2-4G-US	
DC Values								
Max. DC power (watts)	3000	3600	4000	4800	5500	6000	7200	
Max. voltage (volts)	600							
Rated voltage (volts)	250	330						
Startup voltage (volts)	60	120						
Operating MPPT voltage range (volts)	50-450	90-520						
Max. usable input current per MPPT (amps)	2*11							
Max. short circuit input current (amps)	2*17.2							
Number of MPPTs/Max. input strings number	2/2							
AC Values								
Nominal and max. output power 240V grid (watts)	2500	3000	3600	4000	4600	5000	6000	
Nominal and max. output power 208V grid (watts)	2500	3000	3600	4000	4600	5000	5200	
Nominal grid voltage (volts)	240/208							
Nominal grid frequency (hertz)	60							
Operating phase	Single Phase							
Max. output current for 240V grid (amps)	10.4	12.5	15.0	16.7	19.2	20.8	25	
Max. output current for 208V grid (amps)	12.0	14.4	17.3	19.2	22.1	24.0	25	
Output power factor	>0.99							
Output power factor range	0.8 leading ... 0.8 lagging							
Grid current THD	<3%							
Efficiency								
Peak efficiency	97.8%			98.1%				
CEC weighted efficiency	97.1%			97.3%				
MPPT efficiency	>99.5%							
Protection								
DC reverse-polarity protection	Yes							
Ground fault monitoring	Yes							
Islanding protection	Yes							
Integrated AFCI (DC arc-fault circuit protection)	Yes							
Integrated DC switch	Yes							
Rapid shutdown	Yes, Sunspec Certified Built-in Transmitter							
Compliant MLRSD Products	Solis-MLRSD-R(1-2)-1G, APSmart RSD-S-PLC							
General Data								
Dimensions (width*height*depth)	13.9*31.9*6.5in (352*810*164mm)							
Weight	33.1lbs (15kgs)							
Topology	Transformerless							
Internal consumption	<1W (night)							
Ambient operating temperature range	-13°F to 140°F (-25°C to 60°C)							
Storage environment	-13°F to 176°F (-25°C to 80°C)							
Enclosure type	NEMA 4X							
Noise emission (typical)	<30dB(A)							
Cooling concept	Natural convection							
Max. operating altitude without derating	13, 120ft (4000m)							
Compliance	UL 1741, UL 1741 SA, Rule 21 Phase I and II compliant (ready for Phase III), UL 1998, UL 1699B, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1							
Operating surroundings humidity	0~100% Condensing							
Features								
RGM	Optional							
Communication protocol	Modbus RTU (Sunspec compliant)							
Communication	Optional cellular and Wi-Fi							
Connections	2 knockouts for 3/4" conduit at bottom, side and back							
Display	LCD-2x20 Z							
Warranty	10 Years standard (extendable to 20 years)							