

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

Solis 4G Single Phase US Inverters



## Features:

- ▶ CA Rule 21 Phase I and II compliant (ready for Phase III) and UL 1741 (SA) certified
- ▶ Sunspec communication protocol with optional cellular and Wi-Fi interface
- ▶ Built-in Module Level Rapid Shutdown transmitter, NEC 2017:690.12 compliance
- ▶ Optional Built-in Revenue Grade Meter, ANSI C12.20-2010 compliance
- ▶ Industry-leading 3 and 4 MPPT designs
- ▶ Integrated Arc Fault Circuit Interrupt (AFCI)
- ▶ 97.8% peak efficiency (97.5% CEC efficiency)
- ▶ 10 years standard warranty with extension options



## Model:

Solis-1P6K-4G-US

Solis-1P7K-4G-US

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

Solis-1P8K-4G-US

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

Solis-1P9K-4G-US

Solis-1P10K-4G-US

## Datasheet

Model	Solis-1P6K-4G-US	Solis-1P7K-4G-US	Solis-1P7.6K-4G-US	Solis-1P8K-4G-US	Solis-1P8.6K-4G-US	Solis-1P9K-4G-US	Solis-1P10K-4G-US
<b>DC Values</b>							
Max. DC input power (watts)	7200	8400	9100	9600	9900	10800	11500
Max. voltage (volts)				600			
Rated voltage (volts)				330			
Startup voltage (volts)				120			
Operating MPPT voltage range (volts)				100-500			
Max. usable input current per MPPT (amps)	10*3			10*4			
Max. short circuit input current (amps)	15.6*3			15.6*4			
Number of MPPTs/inputs per MPPT	3/1			4/1			
<b>AC Values</b>							
Nominal and max. output power 240V grid (watts)	6000	7000	7600	8000	8600	9000	10000
Nominal and max. output power 208V grid (watts)	6000	7000	7600	8000	8600	9000	9000
Nominal grid voltage (volts)	240/208						
Nominal grid frequency (hertz)	60						
Operating phase	Single Phase						
Max. output current for 240V grid (amps)	25	29.2	31.7	33.3	35.8	37.5	41.7
Max. output current for 208V grid (amps)	28.8	33.7	36.5	38.5	41.3	43.3	43.3
Output power factor	>0.99						
Output power factor range	0.8 leading ... 0.8 lagging						
Grid current THD	<3%						
<b>Efficiency</b>							
Peak efficiency	97.8%						
CEC weighted efficiency	97.5%						
MPPT efficiency	>99.5%						
<b>Protection</b>							
DC reverse-polarity protection	Yes						
AC short circuit protection	Yes						
AC output overcurrent protection	Yes						
Output overvoltage protection-Varistor	Yes						
Ground fault monitoring	Yes						
Grid monitoring	Yes						
Islanding protection	Yes						
Integrated AFCI (DC arc-fault circuit protection)	Yes						
Integrated DC switch	Yes						
Rapid shutdown	Yes						
<b>General Data</b>							
Dimensions (width*height*depth)	13.5*28.8*9.8in (342*732*249 mm)						
Weight	45.2lbs (20.5 kgs)			45.6lbs (20.7kgs)			
Topology	Transformerless						
Internal consumption	<1W (night)						
Ambient operating temperature range	-13°F to 140°F (-25°C to 60°)						
Enclosure type	NEMA 4X						
Noise emission (typical)	<30dB(A)						
Cooling concept	Natural convection						
Max. operating altitude without derating	13, 120ft (4000m)						
Designed lifetime	>20years						
Compliance	L 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						
<b>Features</b>							
RGM	Optional						
Communication protocol	Modbus RTU (Sunspec compliant)						
Communication	Optional cellular and Wi-Fi						
Connections	2 knockout for 1" conduit at bottom, 4 knockout for 3/4" conduit at side and back						
Display	LCD-2x20 Z						
Warranty	10 Years standard (extendable to 20 years)						