

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 Sunspec Certified Module Level Rapid Shutdown Transmitter
- ▶ 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
DC Values							
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)	3*10			4*10			
Max. short circuit input current (amps)	3*15.6			4*15.6			
Number of MPPTs/Max. input strings number	3/3			4/4			
AC Values							
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%			
Efficiency							
Peak efficiency				97.8%			
CEC weighted efficiency				97.5%			
MPPT efficiency				>99.5%			
Protection							
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, Sunspec Certified Built-in Transmitter			
Compliant MLRSD Products				Solis-MLRSD-R(1-2)-1G, APSmart RSD-S-PLC			
General Data							
Dimensions (width*height*depth)				13.5*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, IEEI 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1			
Features							
RGM				Optional			
Communication protocol				Modbus RTU (Sunspec compliant)			
Communication				Optional cellular and Wi-Fi			
Connections				2 knockout for 1"conduit at bottom, 4 knockout for3/4"conduit at side and back			
Display				LCD-2x20 Z			
Warranty				10 Years standard (extendable to 20 years)			