

Solis-1P6K-4G-US

Solis 4G Single Phase US Inverters



Features:

- ▶ CA Rule 21 PhaesI, II&III compliance 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

Datasheet

Model	Solis-1P6K-4G-US
DC Values	
Max. power per MPPT(Watts)	4000
Max. DC input power(Watts)	7200
Max. voltage(Volts)	600
Startup voltage(Volts)	120
Full power MPPT voltage range(Volts)	200-500
Operating MPPT voltage range(Volts)	100-500
Max. usable input current per MPPT(Amps)	10+10+10
Max. short circuit input current(Amps)	15.6+15.6+15.6
Number of MPPT/Inputs per MPPT	3/3
AC Values	
Nominal output power(Watts)	6000
Max. apparent output power(VA)	6000
Max. continuous output power(Watts)	6000
Operating voltage range(Volts)	183-228(for 208V rated)/211-264(for 240V rated)
Operating frequency range (Hertz)	59.5-60.5
Operating phase	Single
Max. output current for 240/208V grid(Amps)	25/28.8
Max. overcurrent protection device 240/208V(Amps)	40/40
Output power Factor	>0.99
Output Power Factor Range	0.8leading ... 0.8lagging
Grid current THD	<3%
Efficiency	
Peak efficiency	97.8%
CEC weighted efficiency	97.5%
MPPTefficiency	>99.5%
Protection	
Temperature protection	Yes
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
General Data	
Connections	2 knockout for 1"conduit at bottom, 4 knockout for3/4"conduit at side and back
Dimensions(W*H*D)	13.5*28.8*9.8in(342*732*249mm)
Weight (inverter)/Weight (wiring box)	45.2lb (20.5kg)
Topology	Transformerless
Internal consumption	<1W (Night)
Ambient operating temperature range	-25°C-60°C/-13°F-140°F
Enclosure type	NEMA 4X
Noise emission(typical)	<30dBA
Cooling concept	Natural convection
Max.operating altitude without derating	13120ft (4000m)
Designed lifetime	>20years
Compliance	UL 1741, UL 1741SA, UL 1998, UL 1699B, IEEE 1547,FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1, Rule 21 PhaesI, II&III
Features	
OTA update	Yes
Communication protocol	Sunspec Modbus
Communication	optional cellular/WIFI
Display	LCD,2x20 Z.
Warranty	10 Years STD (Extendable to 20 Years)