

1P 4G

5kW

 solis

Solis 4G Single Phase US Inverter

- ▶ CA Rule 21 Phase II&III compliance and UL 1741 SA certified
- ▶ Sunspec communication protocol with Cellular and Wi-Fi interface (optional LAN)
- ▶ 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 Year Standard Warranty with extension options



Model:

Solis-1P5K-4G-US

Features:

HF SWITCH
High switch frequency

MLRSD
RGM

AFCI

WiFi/LAN
Sunspec Protocol

NEMA 4X

Available on the iPhone
 App Store
Available on the Android
 App Store

Datasheet

Model	Solis-1P5K-4G-US
DC Values	
Max. input voltage(V)	600
Startup voltage(V)	120
Operating MPPT voltage range(V)	90-520
Max. usable input current per MPPT(A)	11+11
Number of MPPT/Input string	2/2
AC Values	
Nominal and Max. continuous output power 240V grid (W)	5000
Nominal and Max. output power 208V grid (W)	5000
Nominal grid voltage(V)	208/240
Operating voltage range(V)	183-228(for 208V rate)/211-264(for 240V rated)
Operating phase	Single
Max. output current for 240/208V grid(A)	20.8/24.0
Max. overcurrent protection device 240/208V(A)	30/30
Output power factor range	0.8leading ... 0.8lagging
Grid current THD	<3%
DC injection current (A)	<20
Operating frequency range(Hz)	59.5-60.5
Efficiency	
Peak efficiency	98.1%
CEC weighted efficiency	97.3%
MPPT efficiency	>99.5%
Protection	
AC short circuit protection	Yes
Ground fault monitoring/Grid monitoring	Yes
Islanding protection	Yes
Integrated DC switch	Yes
Integrated AFCI(DC arc-fault circuit protection)	Yes
Rapid shutdown	Yes
General Data	
Dimensions(W*H*D)	13.9*31.9*6.5in (352*810*164mm)
Weight	33.1lb (15kg)
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(m/ft)	13120ft (4000m)
Designed lifetime	>20 years
Compliance	UL 1741, UL 1741SA, Rule 21, UL 1998, UL 1699B, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1, Rule 21 Phaes II&III
Operating surroundings humidity	0~100% Condensing
Features	
RSD Transmitter	Yes
OTA update	Yes
RGM	Yes
Communication protocol	Sunspec Protocol
Supported Communication Interface	Rs485, Cellular , WiFi/LAN(Optional)
Connections	2 knockout for 1" and 1 ^{1/4} " conduit at bottom, side and back (6 Total)
Display	LCD,2×20 Z.
Warranty	10 Years STD (Extendable to 20 Years)