

Single 4G

6kW
-
10kW

Solis 4G Single Phase US Inverter

- ▶ Industry-leading 3 and 4 MPPT designs
- ▶ 97.8% peak efficiency (97.5% CEC efficiency)
- ▶ High switching frequency at 30KHz, reducing induction loss and noise level
- ▶ Fan-less natural convection technology and NEMA4X enclosure for high reliability
- ▶ The 5th generation Infineon IGBT technology, improving the efficiency by 0.5-0.8%
- ▶ The latest TI28062 DSP, improving CPU processing speed and PWM resolution increased by 1.5 times
- ▶ CA Rule 21 compliance and UL 1741 SA certified
- ▶ Easy to install and visually pleasing for indoor or outdoor installations
- ▶ Integrated Arc Fault Circuit Interrupt (AFCI)
- ▶ Rs485 Modbus communication protocol with Wi-Fi interface (optional LAN)
- ▶ Web based data monitoring with downloadable Solis Mobile App.
- ▶ 10 Year 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

Features:

HF SWITCH
High switch
frequency

CA Rule 21

AFCI

WiFi/LAN
Real time
monitoring

NEMA 4X

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

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 voltage(V)	600						
Startup voltage(V)	120						
Operating MPPT voltage range(V)	100-500						
Max usable input current per MPPT(A)	10						
Number of MPPT/Inputs per MPPT	3/3			4/4			
AC Values							
Nominal output power 240V grid (W)	6000	7000	7600	8000	8600	9000	10000
Nominal output power 208V grid (W)	6000	7000	7600	8000	8600	9000	9000
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(Amps)	25/28.8	29.2/33.7	31.7/36.5	33.3/38.5	35.8/41.3	37.5/43.3	41.7/43.3
Max. overcurrent protection device 240/208V(Amps)	40/40	40/40	40/50	50/50	50/50	50/50	60/60
Output power factor range	0.8leading ... 0.8lagging						
Grid current THD	<1.5%						
DC injection current (A)	<20						
Operating frequency range(H)	59.5-60.5						
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 over voltage protection-Varistor	Yes						
Ground fault monitoring	Yes						
Grid monitoring	Yes						
Islanding protection	Yes						
Temperature protection	Yes						
Integrated DC switch	Yes						
Integrated AFCI(DC arc-fault circuit protection)	Yes						
Rapid shutdown	Yes						
General Data							
Dimensions(W*H*D)	13.1*25.8*9.8in (333*655*249mm)						
Weight	43.2lb (19.6kg)			43.7lb (19.8kg)			
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						
Relative humidity range	0~100%						
Features							
Connections	2 knockout for 1" and 1 ^{1/2} " conduit at bottom, side and back						
Display	LCD,2×20 Z.						
Interface	Rs485, WiFi/LAN(Optional)						
Warranty	10 Years STD (Extendable to 20 Years)						