

Single 4G

6kW
–
10kW

4G

All NEW Solis Series

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 NEMA 4X 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
- ▶ Optional built-in RGM
- ▶ 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 GPRS/LAN)
- ▶ Web based data monitoring with downloadable Solis Web 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

Solis-1P9K-4G-US

Solis-1P10K-4G-US

Features:

HF SWITCH
High switch
frequency

CA Rule 21

AFCI

WiFi/GPRS
/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-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	3/1			4/1		
AC Values						
Nominal output power 240V grid (W)	6000	7000	7600	8000	9000	10000
Nominal output power 208V grid (W)	6000	7000	7600	7600	8600	9500
Nominal grid voltage(V)	240/208					
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	33.3/36.6	37.5/41.3	41.7/45.9
Max. overcurrent protection device 240/208V(Amps)	40/40	40/40	40/50	50/50	50/50	60/60
Output power factor range	1 (default) and 0.8 leading ... 0.8 lagging adjustable					
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 ^{1/4} " conduit at bottom, side and back					
Display	LCD,2×20 Z.					
Interface	RS485, WiFi/GPRS/LAN(Optional)					
Warranty	10 Years STD (Extendable to 20 Years)					