

Single 2G

2.5kW
-
5kW



Solis 2G Single Phase US Inverter

- ▶ Compact and lightweight design inside a corrosion-resistant NEMA 4X enclosure
- ▶ Easy to install and visually pleasing for indoor or outdoor installations
- ▶ Single Phase 240Vac and 208Vac output
- ▶ Up to 97.8% efficient with an ultra-low start up voltage
- ▶ Dual (2) MPPT designs with fast (< 5 sec.) MPPT response times
- ▶ Industry-leading (100-500Vdc) operating MPPT range
- ▶ 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-2.5K-2G-US

Solis-3K-2G-US

Solis-3.6K-2G-US

Solis-4K-2G-US

Solis-4.6K-2G-US

Solis-5K-2G-US

Features:

Fanless
Cooling
Concept

Ultra wide
Voltage
Range

WiFi/GPRS
/LAN
Real time
monitoring

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

NEMA 4X

AFCI

Datasheet

Model	Solis-2.5K-2G-US	Solis-3K-2G-US	Solis-3.6K-2G-US	Solis-4K-2G-US	Solis-4.6K-2G-US	Solis-5K-2G-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+10			10+18		
Number of MPPT/Inputs per MPPT	2/1			2/2		
AC Values						
Nominal output power(W)	2500	3000	3600	4000	4600	5000
Max. continuous output power(W)	2800	3300	4000	4400	5000	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(Amps)	12/10.4	14.4/12.5	17.3/15.0	19.2/16.7	22.1/19.2	24/20.8
Output power factor range	1 (default) and 0.9 leading ... 0.9 lagging adjustable					
Grid current THD	<3%					
DC injection current (A)	<20					
Operating frequency range(H)	59.5-60.5					
Efficiency						
Peak efficiency	97.5%			97.8%		
CEC weighted efficiency	96.5%			97.0%		
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)	13.3*25.9*6.5in (338*658*165mm)					
Weight	33.1 (15kg)			38.6(17.5kg)		
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(m/ft)	13120					
Designed lifetime	>20 years					
Compliance	UL 1741, UL 1998, UL 1699B, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1					
Operating surroundings humidity	0~100% Condensing					
Features						
Connections	2 knockout for 3/4" and 1" conduit at bottom and side					
Display	LCD,2×20 Z.					
Interface	RS485, WiFi/GPRS/LAN(Optional)					
Warranty	10 Years STD (Extendable to 20 Years)					

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
- ▶ The 5th generation Infineon IGBT technology, improving the efficiency by 0.5-0.8%
- ▶ The latest TI2806 DSP, improving CPU processing speed and PWM resolution increased by 1.5 times
- ▶ Fan-less natural convection technology and NEMA 4X enclosure for high reliability
- ▶ 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

Weight
43.2lb

AFCI

WiFi/GPRS
/LAN
Real time
monitoring

NEMA 4X

Available on the iPhone
App Store
Available on the iPhone
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
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 1998, UL 1699B, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1					
Operating surroundings humidity	0~100% Condensing					
Features						
Connections	2 knockout for 3/4" and 1" conduit at bottom and side					
Display	LCD,2*20 Z.					
Interface	RS485, WiFi/GPRS/LAN(Optional)					
Warranty	10 Years STD (Extendable to 20 Years)					

Three

6kW
-
20kW

Solis Three Phase US Inverter

- ▶ Three phase output
- ▶ Over 98.3% Max. efficiency
- ▶ Ultra wide input voltage range
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Integrated AFCI option
- ▶ Compact and light design for one-person easy installation
- ▶ NEMA 4X, visually pleasing for indoor and outdoor installations
- ▶ RS485 Modbus communication protocol with Wi-Fi interface (optional GPRS/LAN)
- ▶ Numerous protection functions for "peace of mind"
- ▶ Web-based data monitoring and on-the-go monitoring via smart phone app
- ▶ 10 Year Standard Warranty with extension options



Model:

Solis- 6K - US

Solis- 10K - US

Solis- 15K - US

Solis- 20K - US

Features:

Fanless
Cooling
Concept

Ultra wide
Voltage
Range

WiFi/GPRS
/LAN
Real time
monitoring

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

NEMA 4X

Weight
63.9lb

Datasheet

Model	Solis-6K-US	Solis-10K-US	Solis-15K-US	Solis-20K-US
DC Values				
Max voltage(V)	1000			
Startup voltage(V)	330			
Operating MPPT voltage range(V)	200-800			
Max usable input current per MPPT(A)	15	18		
Number of MPPT/Inputs per MPPT	2/1	2/2		
AC Values				
Nominal output power(W)	6000	10000	15000	20000
Max. continuous output power(W)	6600	11000	16500	20000
Nominal grid voltage(V)	480			
Operating voltage range(V)	422.4-528			
Operating phase	Three			
Max. output current(A)	7.2	12	18	24
Output power factor range	1 (default) and 0.8 leading ... 0.8 lagging adjustable			
Grid current THD	<3%			
DC injection current (A)	<20		<50	
Operating frequency range(H)	59.5-60.5			
Efficiency				
Peak efficiency	98.3%			
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)	16.9*26.1*9.3in (430*662.5*235mm)			
Weight	63.9lb (29kg)		70.5lb (32kg)	
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 1998, UL 1699B, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1			
Operating surroundings humidity	0~100% Condensing			
Features				
Connections	2 knockout for 3/4" and 1" conduit at bottom and side			
Display	LCD,2*20 Z.			
Interface	RS485, WiFi/GPRS/LAN(Optional)			
Warranty	10 Years STD (Extendable to 20 Years)			

Three

25kW
-
40kW

Solis Three Phase US Inverter

- ▶ Compact and lightweight design inside a corrosion-resistant NEMA 4X enclosure
- ▶ Designed for all commercial, industrial and utility scale applications
- ▶ Transformer-less three phase design with 480Vac output
- ▶ 98.6% efficient (98.3% CEC) with ultra-low start up voltage
- ▶ Industry-leading 4 MPPT designs with fast (< 5 sec.) MPPT response times
- ▶ Integrated Arc Fault Circuit Interrupt (AFCI)
- ▶ RS485 Modbus communication protocol with Wi-Fi interface (optional GPRS/LAN)
- ▶ 7" LCD color display
- ▶ Web based data monitoring with downloadable Solis Web App.
- ▶ Roof top horizontal installation for Fan(-F) model.
- ▶ 10 Year Standard Warranty with extension options



Model:

Solis-25K-US

Solis- 30K- US

Solis- 36K- US

Solis- 40K- US

Solis- 36K- US-F

Solis- 40K - US - F

Features:

Fanless
Convection
Cooling

Four
MPPT

7"
LCD

WiFi/GPRS
/LAN
Real time
monitoring

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

NEMA 4X

Datasheet

Model	Solis-25K-US	Solis-30K-US	Solis-36K-US	Solis-40K-US	Solis-36K-US-F	Solis-40K-US-F
DC Values						
Max voltage(V)	1000					
Startup voltage(V)	350					
Operating MPPT voltage range(V)	200-800					
Max usable input current per MPPT(A)	18					
Number of MPPT/Inputs per MPPT	4/2					
AC Values						
Nominal output power(W)	25000	30000	36000	40000	36000	40000
Max. continuous output power(W)	27500	33000	40000	44000	40000	44000
Nominal grid voltage(V)	480					
Operating voltage range(V)	422.4-528					
Operating phase	Three					
Max. output current(A)	30.1	36.1	43.3	48.1	43.3	48.1
Output power factor range	1 (default) and 0.8 leading ... 0.8 lagging adjustable					
Grid current THD	<3%					
DC injection current (A)	<50					
Operating frequency range(H)	59.5-60.5					
Efficiency						
Peak efficiency	98.6%					
CEC weighted efficiency	98.3%					
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)	23.4*37.2*14.4in (595*945*356.5mm)					
Weight	147.7lb (67kg)				154lb (70kg)	
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				<60dBA	
Cooling concept	Natural convection				Intelligent redundant cooling	
Max operating altitude without derating(m/ft)	13120ft (4000m)					
Designed lifetime	>20 years					
Compliance	UL 1741, UL 1998, UL 1699B, IEEE 1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1					
Operating surroundings humidity	0~100% Condensing					
Features						
Connections	4 knockout for 1.5" conduit at bottom and side. DC side Fuse terminal, AC side terminal block.					
Display	7.0" LCD color display					
Interface	RS485, WiFi/GPRS/LAN(Optional)					
Warranty	10 Years STD (Extendable to 20 Years)					