



# 6kW to 10kW

Ginlong Solis US Version Single Phase Inverters



## Leading Features

- 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
- 97.8% efficient with an ultra-low start up voltage
- Industry-leading 3 and 4 MPPT designs with fast (< 5 sec.) MPPT response times
- Industry-leading (200-500Vdc) full power MPPT range
- Integrated Arc Fault Circuit Interrupt (AFCI) option
- RS485 Modbus communication protocol with Wi-Fi interface (optional GPRS)
- Web based data monitoring with downloadable Solis Web App.
- 10 Year Standard Warranty with extension options

## Accessories & monitoring

WiFi Stick



Web Box



Rapid Shutdown Device



Contact us today.

t: 866.438.8408  
e: [sales@ginlong-usa.com](mailto:sales@ginlong-usa.com)  
w: [ginlong-usa.com](http://ginlong-usa.com)

Manufacturer:

Ginlong Technologies  
Ltd., Ningbo, Zhejiang  
P.R. China

US Headquarters:

565 Metro Place South  
/ Suite 3214, Dublin, OH  
43017 USA



# Technical Specification

## Model

Energy Source

## DC Values

Max usable input current per MPPT (Amps)

Max Short Circuit Current (Amps)

Start-Up Voltage (Volts)

Max Voltage (Volts)

Full Power MPPT Voltage Range (Volts)

Max Power per MPPT (Watts)

Number of MPPT

Inputs per MPPT

## AC Values (240Vac)

Operating Voltage Range (Volts)

Operating Frequency Range (Hertz)

Ambient Operating Temperature Range (Celsius and Fahrenheit)

Ambient Humidity Range

AC Output Power Factor

Grid THD

Nominal Power Output (Watts)

Continuous Power Output (Watts)

Maximum Continuous AC Output Current (Amps)

## Efficiency

Peak Efficiency

CEC Weighted Efficiency

MPPT Efficiency

## Protection

Max Overcurrent Protection Device (Amp Rating)

Temperature Protection

DC Reverse Polarity Protection

Output Overvoltage Protection

Anti-Islanding

Integrated AFCI (DC arc fault)

Integrated DC Switch

Rapid Shutdown (NEC 690.12)

## General Data

Dimensions (Inches)

Weight (Pounds)

Topology

Internal consumption (Watts)

Enclosure Type

Cooling Type

Noise Emissions

Max operating altitude without de-rate

Compliance

## Features

Display

Communication

Conduit Knockouts

Warranty

	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
Energy Source	PV					
Max usable input current per MPPT (Amps)	10					
Max Short Circuit Current (Amps)	15.6					
Start-Up Voltage (Volts)	120Vdc					
Max Voltage (Volts)	600					
Full Power MPPT Voltage Range (Volts)	200-500	233-500	253-500	200-500	225-500	250-500
Max Power per MPPT (Watts)	4000	4000	4000	4000	4000	4000
Number of MPPT	3			4		
Inputs per MPPT	1					
Operating Voltage Range (Volts)	183-228(for 208V rated)/211-264(for 240V rated)					
Operating Frequency Range (Hertz)	59.5-60.5					
Ambient Operating Temperature Range (Celsius and Fahrenheit)	-25°C to 60°C / -13°F to 140°F					
Ambient Humidity Range	0-100% Condensing					
AC Output Power Factor	> 0.99					
Grid THD	< 3%					
Nominal Power Output (Watts)	6000	7000	7600	8000	9000	10000
Continuous Power Output (Watts)	6600	7700	8360	8800	9900	10000
Maximum Continuous AC Output Current (Amps)	25	29.2	31.7	33.3	37.5	41.7
Peak Efficiency	97.8%					
CEC Weighted Efficiency	97.5%					
MPPT Efficiency	>99%					
Max Overcurrent Protection Device (Amp Rating)	40/40	40/40	40/50	40/50	50/50	50/60
Temperature Protection	Yes					
DC Reverse Polarity Protection	Yes					
Output Overvoltage Protection	Yes (Varistor)					
Anti-Islanding	Yes					
Integrated AFCI (DC arc fault)	Yes					
Integrated DC Switch	Yes					
Rapid Shutdown (NEC 690.12)	Optional					
Dimensions (Inches)	13.1*25.8*9.8in / (333*655*249mm)					
Weight (Pounds)	43.2lb (19.6kg)			43.7lb (19.8kg)		
Topology	Transformer-less					
Internal consumption (Watts)	<1W (Night)					
Enclosure Type	NEMA 4X					
Cooling Type	Natural Convection					
Noise Emissions	<30 dBA					
Max operating altitude without de-rate	13,120 feet (4000m)					
Compliance	UL 1741, UL 1998, UL 1699B, IEE 1547, FCC Part 15 (Class A&B), CAN/CSA 22.2 107.1-1					
Display	LCD, 2 × 20 Z					
Communication	RS 485 Modbus / Wi-Fi (GPRS optional) interface					
Conduit Knockouts	Two (2) on side and two (2) on bottom, 1", 1 1/4" ID,					
Warranty	Standard 10 Year (Extendable to 20 Years)					