



Leading Features

- ▶ Over 97.8% Max. efficiency
- ▶ Dual MPPT design with precise MPPT algorithm starting from 2.5kW
- ▶ Ultra wide input voltage range
- ▶ Integrated AFCI
- ▶ Compact and light design for one-person easy installation
- ▶ NEMA 4X, visually pleasing for indoor and outdoor installations
- ▶ RS 485, WiFi/GPRS (optional) interface
- ▶ Numerous protection functions for "peace of mind"
- ▶ Web-based data monitoring and on-the-go monitoring via smart phone app
- ▶ 10 years standard warranty

Manufacturer: Ginlong (Ningbo) Technologies Co.,Ltd., Ningbo, Zhejiang, P.R.China

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Datasheet

Model	Solis-1K-2G-US	Solis-1.5K-2G-US	Solis-2K-2G-US	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	
Energy source	PV									
DC Values										
Max power per MPPT (Watts)	1200	1800	2400	3000	3600	4300	4800	5500	6000	
Max voltage (Volts)	500			600						
Startup voltage (Volts)	80	120								
Full power MPPT voltage range (Volts)	100-400	150-400	200-400	125-500	150-500	180-500	145-500	165-500	180-500	
Operating MPPT voltage range (Volts)	70-400	100-400		100-500						
Max usable input current per MPPT (Amps)	10			10+10			10+18			
Max short circuit input current (Amps)	15.6			15.6+15.6			15.6+ 23.4			
Number of MPPT	1			2						
Inputs per MPPT	1			2						
AC Values										
Nominal output power (Watt)	1000	1500	2000	2500	3000	3600	4000	4600	5000	
Continuous output power (Watt)	1100	1700	2200	2800	3300	4000	4400	5000	5000	
Nominal grid voltage (Volts)	208/240									
Operating voltage range (Volts)	183~228(for 208V rated)/211~264(for 240V rated)									
Operating phase	Single									
Max overcurrent protection device (Amps)	10	10	16	20	20	20	25	32	32	
Max continuous output current (Amps)	4.3	6.5	8.7	10.9	13	15.7	17.4	20	21.7	
Output power factor	>0.99									
Grid current THD	THD<3%									
DC injection current (mAmps)	<20									
Nominal grid frequency (Hertz)	60									
Operating frequency range (Hertz)	59.3-60.5									
Efficiency										
Peak efficiency	96.8%			97.5%			97.8%			
CEC weighted efficiency	96.2%			96.8%			97%			
MPPT efficiency	99.9%			99.9%			99.9%			
Protection										
Temperature protection	Yes									
DC reverse-polarity protection	Yes									
AC short circuit protection	Yes									
AC output overcurrent protection	Yes									
Output overvoltage protection-Varistor	Yes									
Ground fault monitoring	Yes									
Grid monitoring	Yes									
Islanding protection	Yes									
Integrated AFCI(DC arc-fault circuit protection)	Yes									
Integrated DC switch	Yes									
Rapid shutdown	Optional									
General data										
Dimensions (inch)	13.3W*25.9H*6.5D				13.3W*25.9H*6.8D					
Weight (lbs)	21.6				33.1			38.6		
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)	<30 dBA									
Cooling type	Natural convection									
Max.operating altitude without derating	2000m									
Designed lifetime	>20 years									
Compliance	CAN/CSAC22.2 N107.1, UL1741, UL1998, UL1699B, FCC part 15, Class B									
Operating surroundings humidity	0~95%									
Features										
Conduit connention	Plugged 3/4" openings for bottom and side									
Display	LCD, 2 x 20 Z.									
Interface	RS 485, WiFi/GPRS (optional)									
Warranty Terms	10 years									