

4G

1KW  
to 5KW

4G NEW

## Solis 4G Single Phase Inverter

- ▶ High switch frequency technology
- ▶ Efficiency greatly improved
- ▶ One board design, reduce the risks caused by the connector between PCB boards
- ▶ Ultra-low temperature rise, with the structure of the external power inductor
- ▶ Ultra wide input voltage range
- ▶ RS485, WiFi/GPRS, and Ethernet(optional) interface
- ▶ WiFi and GPRS monitoring available---iphone and android app available
- ▶ Integrated export power control function (optional)
- ▶ 5 years standard warranty, 20 years optional upgrade



### Model:

Solis- 1P1K- 4G	Solis- 1P1.5K- 4G	Solis- 1P2K- 4G
Solis- 1P2.5K- 4G	Solis- 1P3K- 4G	Solis- 1P3K- 4G- ST
Solis- 1P3.6K- 4G	Solis- 1P4K- 4G	Solis- 1P4.6K- 4G
Solis- 1P5K- 4G		

### Leading Features:

EPM	HF SWITCH	AFCI	Weight	WiFi/GPRS
Export power manager	High switch frequency	Optional	11kg	Real time monitoring

# Datasheet

Model	Solis-1P1K-4G	Solis-1P1.5K-4G	Solis-1P2K-4G	Solis-1P2.5K-4G	Solis-1P3K-4G-ST	Solis-1P3K-4G	Solis-1P3.6K-4G	Solis-1P4K-4G	Solis-1P4.6K-4G	Solis-1P5K-4G
Energy Source	PV									
<b>Input Side(DC)</b>										
Max. DC input power(kW)	1.2	1.8	2.3	3	3.5	3.5	4.2	4.6	5.3	5.8
Max. DC input voltage(V)	550					600				
Start-up voltage(V)	60					120				
MPPT voltage range(V)	50-450					100-500				
Max. input current(A)	11A					11A+11A				
MPPT number/Max input strings number	1/1					2/2				
<b>Output Side (AC)</b>										
Rated output power(kW)	1	1.5	2	2.5	3	3	3.6	4	4.6	5
Max. apparent output power(kVA)	1.1	1.7	2.2	2.8	3.3	3.3	4	4.4	5	5.5
Max. output power(kW)	1.1	1.7	2.2	2.8	3.3	3.3	4	4.4	5	5.5
Rated grid voltage(V)	230									
Grid voltage range(V)	160-285									
Rated grid frequency(Hz)	50/60									
Operation phase	Single									
Rated grid output current(A)	4.3	6.5	8.7	10.9	13	13	15.7	17.4	20	21.7
Max. output current(A)	5.2	8.1	10.5	13.3	15.7	15.7	16	21	23.8	25
Power Factor (at rated output power)	0.8...1...0.8									
THDi (at rated output power)	<1.5%									
DC injection current(mA)	<20									
Grid frequency range(Hz)	47-52 or 57-62									
<b>Efficiency</b>										
Max. efficiency	97.5%			97.8%			98.1%			
EU efficiency	96.8%			97.1%			97.3%			
MPPTefficiency	>99.5%									
<b>Protection</b>										
DC reverse-polarity protection	Yes									
Short circuit protection	Yes									
Output over current protection	Yes									
Output over voltage protection	Yes									
Insulation resistance monitoring	Yes									
Residual current detection	Yes									
Surge protection	Yes									
Islanding protection	Yes									
temperature protection	Yes									
Integrated DC switch	Optional									
<b>General Data</b>										
Dimensins(mm)	310W*543H*160D (mm)									
Weight(kg)	11					11.5				
Topology	Transformerless									
Self consumption (night)	<1W(Night)									
Operating ambient temperature range	-25~60℃									
Ingress protection	IP65									
Noise emission{typical}	<30 dBA									
Cooling concept	Natural convection									
Max. operation altitude	4000m									
Designed lifetime	>20years									
Grid connection standard	EN50438, G83/2, G59/3, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105									
Relative humidity	0~100%									
Safty/EMC standard	IEC62109-1/-2, NB/T 32004,EN61000-6-1, EN61000-6-3									
<b>Features</b>										
DC connection	MC-4mateable									
AC connection	Ip67rated plug									
Display	LCD,2×20 Z.									
Communication connections	4 pins RS485 connector									
Warranty	5 years standard (extend to 20 years)									