

Single 4G

1kW
-
5kW

4G

All NEW Solis Series

Solis 4G Single Phase Inverter

- ▶ All New Solis 4G Single Phase Range
- ▶ All New Design – Smaller, Lighter and Smarter
- ▶ 4G Model range extended to include 6kW- 10kW
- ▶ Dual and now Three MPPT options available
- ▶ Built-in Export power management
- ▶ High Frequency Switching - Significantly reduces inductance loss and noise levels
- ▶ WiFi and GPRS monitoring available---iphone and android app available
- ▶ 5 years standard warranty, 20 years optional upgrade



Model:

Solis-1P1K-4G

Solis-1P1.5K-4G

Solis-1P2K-4G

Solis-1P2.5K-4G

Solis-1P2.5K2-4G

Solis-1P3K-4G

Solis-1P3K-4G-ST

Solis-1P3.6K-4G

Solis-1P4K-4G

Solis-1P4.6K-4G

Solis-1P5K-4G

Features:

EPM

Export power
manager

HF SWITCH

High switch
frequency

AFCI

Optional

Weight

11kg

WiFi/GPRS

Real time
monitoring

Available on the iPhone
App Store

Available on the iPhone
App Store

Datasheet

Model	Solis-1P1K-4G	Solis-1P1.5K-4G	Solis-1P2K-4G	Solis-1P2.5K-4G	Solis-1P2.5K2-4G	Solis-1P3K-4G-ST	Solis-1P3K-4G	Solis-1P3.6K-4G	Solis-1P4K-4G	Solis-1P4.6K-4G	Solis-1P5K-4G
Energy Source	PV										
Input Side(DC)											
Max. DC input power(kW)	1.2	1.8	2.3	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	11A	11A+11A				
MPPT number/Max input strings number	1/1				2/2	1/1	2/2				
Output Side (AC)											
Rated output power(kW)	1	1.5	2	2.5	2.5	3	3	3.6	4	4.6	5
Max. apparent output power(kVA)	1.1	1.7	2.2	2.8	2.8	3.3	3.3	4	4.4	5	5
Max. output power(kW)	1.1	1.7	2.2	2.8	2.8	3.3	3.3	4	4.4	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	10.9	13	13	15.7	17.4	20	21.7
Max. output current(A)	5.2	8.1	10.5	13.3	13.3	15.7	15.7	16	21	23.8 (21.7 for AUS)	25 (21.7for AUS)
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										
Efficiency											
Max. efficiency	97.5%			97.8%					98.1%		
EU efficiency	96.8%			97.1%					97.3%		
MPPTefficiency	>99.5%										
Protection											
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										
General Data											
Dimensins(mm)	310W*543H*160D (mm)										
Weight(kg)	11				11.5	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										
Features											
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)										