

# Single 4G

4kW

# 4G

## All NEW Solis Series

### Solis 4G Single Phase Inverter

- ▶ All New Solis 4G Single Phase Range
- ▶ All New Design – Smaller, Lighter and Smarter
- ▶ 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-1P4K-4G

### Features:



# Datasheet

Model	Solis-1P4K-4G
Energy Source	PV
<b>Input Side(DC)</b>	
Max. DC input power(kW)	4.6
Max. DC input voltage(V)	600
Start-up voltage(V)	120
MPPT voltage range(V)	100-500
Max. input current(A)	11A+11A
MPPT number/Max input strings number	2/2
<b>Output Side (AC)</b>	
Rated output power(kW)	4
Max. apparent output power(kVA)	4.4
Max. output power(kW)	4.4
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)	17.4
Max. output current(A)	21
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	98.1%
EU efficiency	97.3%
MPP efficiency	>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>	
Dimensions(mm)	310W*543H*160D (mm)
Weight(kg)	11.5
Topology	Transformerless
Self consumption (night)	<1W(Night)
Operating ambient temperature range	-25~60°C
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%
Safety/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)