

1P 4G

5kW

## Solis 1P 4G Single Phase Inverter

- ▶ Solis 1P 4G Single Phase Range
- ▶ High frequency switching technology - Smaller, smarter
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ Intergrated Export Power Manager(EPM)
- ▶ Over 98.1% Max.efficiency
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-iphone and android app available
- ▶ 5 years standard warranty, 20 years optional upgrade



### Model:

Solis-1P5K-4G

### Features:



# Datasheet

Model	Solis-1P5K-4G
Energy Source	PV
<b>Input Side(DC)</b>	
Max. DC input power(kW)	5.8
Max. DC input voltage(V)	600
Start-up voltage(V)	120
MPPT voltage range(V)	90-520
Max. input current per MPPT(A/B)	11A+11A
MPPT number/Max input strings number	2/2
<b>Output Side (AC)</b>	
Rated output power(kW)	5
Max. apparent output power(kVA)	5
Max. output power(kW)	5
Rated grid voltage(V <sub>LL</sub> )	220/230
Rated grid frequency(Hz)	50/60
Operation phase	Single
Rated grid output current(A)	22.7/21.7
Max. output current(A)	25(21.7for AUS)
Power Factor (at rated output power)	0.8 leading ... 0.8 lagging
THDi (at rated output power)	<3%
DC injection current(mA)	<0.5%I <sub>n</sub>
Grid frequency range(Hz)	47-52 or 57-62
<b>Efficiency</b>	
Max. efficiency	98.1%
EU efficiency	97.3%
MPPT 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
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	>20 years
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-4 mateable
AC connection	IP67 rated plug
Display	LCD,2×20 Z.
Communication connections	4 pins RS485 connector
Warranty	5 years standard (extend to 20 years)