

# Solis-1P4K-4G

## Solis 4G Single Phase Inverters



### Features:

- ▶ 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-Android and Apple App store available

**Model:**  
Solis-1P4K-4G

### Datasheet

Model Name	Solis-1P4K-4G
<b>Input DC</b>	
Max. DC input power(kW)	4.6
Max. DC input voltage(V)	600
Start-up voltage(V)	120
MPPT voltage range(V)	90-520
Max. input current(A/B)	11A+11A
Max. Short Circuit current for each MPPT	17.2A+17.2A
MPPT number/Max input strings number	2/A:1; B:1
<b>Output AC</b>	
Rated output power(kW)	4
Max. apparent output power(kVA)	4.4
Max. output power(kW)	4.4
Rated grid voltage(V)	220/230
Rated grid frequency(Hz)	50/60
Grid frequency range(Hz)	47-52 or 57-62
Operation phase	Single Phase
Rated grid output current(A)	18.2/17.4
Max. output current(A)	21
Power Factor (at rated output power)	0.8leading ... 0.8lagging
THDi (at rated output power)	<3%
DC injection current	<0.5%In
<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
Grid monitoring	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	Transformer less
Self consumption (night)	<1W (Night)
Operating ambient temperature range	-25~60°C
Relative humidity	0~100%
Ingress protection	IP65
Noise emission(typical)	<20dBA
Cooling concept	Natural convection
Max. operation altitude	4000m
Designed lifetime	>20 years
Grid connection standard	EN50438, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, G98, G99
Saftey/EMC standard	IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3
<b>Features</b>	
DC connection	MC4
AC connection	IP67 rated plug
Display	LCD, 2x20 Z.
Communication connections	4 pins RS485 connector
Monitoring	WiFi or GPRS
Warranty	5/ 10/ 15/ 20 Years