

# Solis-1P5K-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
- ▶ 5 years standard warranty, 20 years optional upgrade

## Model:

Solis-1P5K-4G

## Datasheet

Model Name	Solis-1P5K-4G					
<b>Input 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(A/B)	11A+11A					
MPPT number/Max input strings number	2/A:1; B:1					
<b>Output AC</b>						
Rated output power(kW)						5
Max. apparent output power(kVA)						5
Max. output power(kW)						5
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)						22.7/21.7
Max. output current(A)						25A (21.7 for AUS)
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%
MPP Tefficiency	>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>						
Dimensins(mm)	310W*543H*160D					
Weight (kg)	11.5					
Topology	Transformerless					
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, G83/2, G59/3, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, G98, G99					
Safty/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 years (extend to 20 years)					