

# Solis-3P5K-4G-LV

## Solis 4G Three Phase Inverters



### Features:

- ▶ Solis 3P 4G Three Phase Range
- ▶ 160V-500V MPPT voltage range-ultra low startup
- ▶ Dual MPPT design with precise MPPT algorithm
- ▶ THDi<1.5%, low harmonic distortion against grid
- ▶ Over 98.0% Max. efficiency
- ▶ Multiple protections levels
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-Android and Apple App store available
- ▶ 5 years standard warranty, 20 years optional upgrade

### Model:

220V Solis-3P5K-4G-LV

### Datasheet

Model Name		Solis-3P5K-4G-LV
<b>Input DC</b>		
Max. DC input power(kW)		6
Max. DC input voltage(V)		1000
Start-up voltage(V)		180
MPPT voltage range(V)		160-500
Max. input current(A/B)		11A+11A
Max Short Circuit current for each MPPT		17.2A+17.2A
MPPT number/Max input strings number		2/2
<b>Output AC</b>		
Rated output power(kW)		5
Max. apparent output power(kVA)		5.5
Max. output power(kW)		5.5
Rated grid voltage(V)		208/220/240
Rated grid frequency(Hz)		50/60
Grid frequency range(Hz)		47-52
Operation phase		Three Phase
Rated grid output current(A)		13.1
Max. output current(A)		14.4
Power Factor (at rated output power)		0.8leading... 0.8lagging
THDi (at rated output power)		<1.5%
DC injection current		<0.5%In
<b>Efficiency</b>		
Max. efficiency		98.0%
EU efficiency		97.5%
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>		
Dimensins(mm)		310W*538H*158D
Weight (kg)		14.1
Topology		Transformerless
Self consumption (night)		<1W (Night)
Operating ambient temperature range		-25~60°C
Relative humidity		0~100%
Ingress protection		IP65
Noise emission(typical)		<30 dBA
Cooling concept		Natural convection
Max. operation altitude		4000m
Designed lifetime		>20 years
Grid connection standard		EN50438, AS4777, VDE0126-1-1, IEC61727,G98,G99
Safety/EMC standard		IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
<b>Features</b>		
DC connection		MC4
AC connection		Terminal connectors
Display		LCD, 2x20 Z.
Communication connections		4 pins RS485 connector
Monitoring		WiFi or GPRS
Warranty		5 years (extend to 20 years)