

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
Input DC	
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
Output AC	
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
Efficiency	
Max. efficiency	98.0%
EU efficiency	97.5%
MPPT efficiency	>99.5%
Protection	
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
General Data	
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
Features	
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)