

Solis-1P3K-4G

Solis 4G Single Phase Inverters



Features:

- ▣ Solis 1P 4G Single Phase Range
- ▣ High frequency switching technology - Smaller, smarter
- ▣ 24-hour load consumption monitoring
- ▣ Dual MPPT design with precise MPPT algorithm
- ▣ Intergrated Export Power Manager(EPM)
- ▣ Over 97.8% Max. efficiency
- ▣ RS485, WiFi/LAN/GPRS (optional) interface
- ▣ WiFi monitoring available-plus access to Android and Apple apps



Model:

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Datasheet

Model Name	Solis-1P3K-4G
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Input DC

Max. DC input power(kW)	4.0
Max. DC input voltage(V)	600
Nominal DC voltage(V)	330
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	2/2

Output AC

Rated output power(kW)	3
Max. apparent output power(kVA)	3.3
Rated grid voltage(V)	230
Rated grid output current(A)	13
Max. output current(A)	15.7
Power Factor (at rated output power)	0.8leading ... 0.8lagging
THDi (at rated output power)	<3%
DC injection current	<0.5In

Efficiency

Max. efficiency	97.8%
EU efficiency	97.1%
MPPT efficiency	>99.5%

Protection

DC reverse-polarity protection	Yes
Insulation resistance monitoring	Yes
Residual current detection	Yes
Surge protection	Yes
Islanding protection	Yes
Integrated DC switch	Optional

General Data

Dimensions(mm)	310W*543H*160D
Weight (kg)	11.5
Topology	Transformerless
Self consumption (night)	<10W (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	EN505049, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, G98, G99, IEC 62116
Safety/EMC standard	IEC62109-1/-2, NB/T 32004, EN61000-6-2, EN61000-6-3

Features

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 standard (extend to 20 years)
DRM function for AUS	Integrated DRM function for AUS