

Solis-1P4.6K-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 98.1% 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-1P4.6K-4G
Input DC	
Max. DC input power(kW)	6.1
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)	4.6
Max. apparent output power(kVA)	5
Rated grid voltage(V)	230
Rated grid output current(A)	20
Max. output current(A)	23.8A(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
Efficiency	
Max. efficiency	98.1%
EU efficiency	97.3%
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, 2×20 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