

Solis-1P(2.5-6)K-4G

Solis 4G Single Phase Inverters



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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-1P3K-4G
- Solis-1P3.6K-4G
- Solis-1P4K-4G
- Solis-1P4.6K-4G
- Solis-1P5K-4G

Datasheet

Model Name	Solis-1P3K-4G	Solis-1P3.6K-4G	Solis-1P4K-4G	Solis-1P4.6K-4G	Solis-1P5K-4G
Input DC					
Max. DC input power(kW)	3.5	4.2	4.6	5.3	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				
Output AC					
Rated output power(kW)	3	3.6	4	4.6	5
Max. apparent output power(kVA)	3.3	4	4.4	5	5
Max. output power(kW)	3.3	4	4.4	5	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)	13.6/13	16/15.7	18.2/17.4	20.9/20	22.7/21.7
Max. output current(A)	15.7	16	21	23.8A (21.7 for AUS)	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				
Efficiency					
Max. efficiency	97.8%			98.1%	
EU efficiency	97.1%			97.3%	
MPP Tefficiency	>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*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				
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 (extend to 20 years)				