

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

Solis 4G Single Phase Inverters



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-1P2.5K-4G
Solis-1P3.6K-4G
Solis-1P4.6K-4G
Solis-1P6K-4G

Solis-1P3K-4G
Solis-1P4K-4G
Solis-1P5K-4G

Datasheet

Model Name	Solis-1P2.5K-4G	Solis-1P3K-4G	Solis-1P3.6K-4G	Solis-1P4K-4G	Solis-1P4.6K-4G	Solis-1P5K-4G	Solis-1P6K-4G
Input DC							
Max. DC input power(kW)	3	3.5	4.2	4.6	5.3	5.8	6.6
Max. DC input voltage(V)	550	600					
Start-up voltage(V)	60	120					
MPPT voltage range(V)	50-450	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)	2.5	3	3.6	4	4.6	5	6
Max. apparent output power(kVA)	2.8	3.3	4	4.4	5	5	6
Max. output power(kW)	2.8	3.3	4	4.4	5	5	6
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)	11.4/10.9	13.6/13	16/15.7	18.2/17.4	20.9/20	22.7/21.7	27.3
Max. output current(A)	13.3	15.7	16	21	23.8A (21.7 for AUS)	25A (21.7 for AUS)	27.3
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)						