

# Solis-1P(2.5-5)K-4G,Solis-1P5K-4G-MX

## 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:

- |                  |               |
|------------------|---------------|
| Solis-1P2.5K-4G  | Solis-1P3K-4G |
| Solis-1P3.6K-4G  | Solis-1P4K-4G |
| Solis-1P4.6K-4G  | Solis-1P5K-4G |
| Solis-1P5K-4G-MX |               |

## 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-1P5K-4G-MX
<b>Input DC</b>							
Max. DC input power(kW)	3.3	4.0	4.8	5.3	6.1	6.7	6.7
Max. DC input voltage(V)	600						
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						
<b>Output AC</b>							
Rated output power(kW)	2.5	3	3.6	4	4.6	5	4.999
Max. apparent output power(kVA)	2.8	3.3	4	4.4	5	5	4.999
Max. output power(kW)	2.8	3.3	4	4.4	5	5	4.999
Rated grid voltage(V)	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)	10.9	13	15.7	17.4	20	21.7	21.7
Max. output current(A)	13.3	15.7	16	21	21.7	21.7	21.7
Power Factor (at rated output power)	0.8leading ... 0.8lagging						
THDi (at rated output power)	<3%						
DC injection current	<0.5%In						
<b>Efficiency</b>							
Max. efficiency	97.8%			98.1%			
EU efficiency	97.1%			97.3%			
MPPT efficiency	>99.5%						
<b>Protection</b>							
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						
<b>General Data</b>							
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	EN50549, AS4777.2:2015, VDE0126-1-1, IEC61727, IEC 62116, VDE N4105, G98, G99						
Safety/EMC standard	IEC62109-1/-2, NB/T 32004, EN61000-6-2, EN61000-6-3						
<b>Features</b>							
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						

