

# 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-Android and Apple App store available

### 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	5.32	6.12	6.65	
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)				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	
Max. output current(A)	13.3	15.7	16	21	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			
Integrated DC switch				Optional			
<b>General Data</b>							
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, AS4777.2:2015, VDE0126-1-1, IEC61727, IEC 62116, VDE N4105, G98, G99			
Safety/EMC standard				IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3			
<b>Features</b>							
DC connection				MC4			
AC connection				IP67 rated plug			
Display				LCD, 2x20 Z.			
Communication connections				4 pins RS485 connector			
Monitoring				WiFi or GPRS			
Warranty				5/10/15/20 Years			