

Solis-1P(7-10)K-4G

Solis 4G Single Phase Inverters



Features:

- ▶ Solis 1P 4G Single Phase Range
- ▶ High frequency switching technology - Smaller, smarter
- ▶ Three MPPT design with precise MPPT algorithm
- ▶ Over 98.1% Max. efficiency
- ▶ RS485, WiFi/ GPRS (optional) interface
- ▶ WiFi monitoring available-Android and Apple App store available

Model:

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|---------------|----------------|
| Solis-1P7K-4G | Solis-1P8K-4G |
| Solis-1P9K-4G | Solis-1P10K-4G |

Datasheet

Model Name	Solis-1P7K-4G	Solis-1P8K-4G	Solis-1P9K-4G	Solis-1P10K-4G
Input DC				
Max. DC input power(kW)	8	9.2	10.8	11.5
Max. DC input voltage(V)	600			
Start-up voltage(V)	120			
MPPT voltage range(V)	100-500			
Max. input current(A/B/C)	10A+10A+10A			
Max. Short Circuit current for each MPPT	15.6A+15.6A+15.6A			
MPPT number/Max input strings number	3/A:1; B:1; C:1			
Output AC				
Rated output power(kW)	7	8	9	10
Max. apparent output power(kVA)	7.7	8.8	9.9	10
Max. output power(kW)	7.7	8.8	9.9	10
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)	31.8/30.4	36.4/34.8	40.9/39.1	45.5/43.5
Max. output current(A)	33.7	36.6	41.3	45.9
Power Factor (at rated output power)	0.8leading... 0.8lagging			
THDi (at rated output power)	<1.5%			
DC injection current	<0.5%In			
Efficiency				
Max. efficiency	98.1%			
EU efficiency	97.6%			
MPPT efficiency	>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				
Dimensions(mm)	333W*573H*249D			
Weight (kg)	18			
Topology	Transformer less			
Self consumption (night)	<1W (Night)			
Operating ambient temperature range	-25~60°C			
Relative humidity	0~100%			
Ingress protection	IP65			
Noise emission(typical)	<30 dBA			
Cooling concept	Natural convection			
Max. operation altitude	4000m			
Designed lifetime	>20 years			
Grid connection standard	EN50438, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE N4105, G98, G99			
Safety/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/ 10/ 15/ 20 Years			