

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:

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			
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/ 10/ 15/ 20 Years			