

# Solis-1P(7-8)K-5G

Solis 5G Single Phase Inverters



## Features:

- ▶ Over 98.1% Max. efficiency
- ▶ Friendly and adaptable connection to the grid
- ▶ Support 1.1 times overload, increase power generation
- ▶ Light weight 13.3 kg, Single-person maintainable installation
- ▶ IP65 protection grade, suitable for outdoor installation
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available- plus access to Android and Apple apps



## Model:

Solis-1P7K-5G

Solis-1P8K-5G

## Datasheet

Model Name	Solis-1P7K-5G	Solis-1P8K-5G
<b>Input DC</b>		
Max. DC input power(kW)	9.1	10.4
Max. DC input voltage(V)	600	
Nominal DC voltage(V)	330	
Start-up voltage(V)	120	
MPPT voltage range(V)	90-520	
Max. input current(A/B)	12.5A+25A	
Max. Short Circuit current for each MPPT(A/B)	19.5A+39A	
MPPT number/Max input strings number	2/A:1; B:2	
<b>Output AC</b>		
Rated output power(kW)	7.0	8.0
Max. apparent output power(kVA)	7.7	8.0
Rated grid voltage(V)	220/230	
Grid voltage range(V)	211-264	
Operation phase	Single Phase	
Rated output current(A)	30.4	34.8
Max. output current(A)	33.5	34.8
Power Factor (at rated output power)	0.8leading ... 0.8lagging	
THDi (at rated output power)	<3%	
<b>Efficiency</b>		
Max. efficiency	98.1%	
EU efficiency	97.3%	
MPPT efficiency	99.5%	
<b>Protection</b>		
DC reverse-polarity protection	Yes	
Insulation resistance monitoring	Yes	
Residual current detection	Yes	
Surge protection	Yes	
Islanding protection	Yes	
Integrated DC switch	Optional	
<b>General Data</b>		
Dimensions (mm)	310W*543H*180D	
Weight (kg)	13.3	
Topology	Transformerless	
Self consumption (night)	<1W (night)	
Operating ambient temperature range	-25°C~ +60°C	
Relative humidity	0 ~ 100%	
Ingress protection	IP65	
Noise emission(typical)	< 20dB(A)	
Cooling concept	Natural cooling	
Max.operation altitude	4000m	
Grid connection standard	EN50549, G99, AS4777.2:2015, VDE0126-1-1, IEC61727, VDE4105-2018	
Safety / EMC standard	IEC62109-1/-2, NBT32004-2018, EN61000-6-2, EN61000-6-3	
<b>Features</b>		
DC connection	MC4	
AC connection	Terminal connectors	
Display	LCD, 2×20 Z.	
Communication connections	RS485	
Monitoring	WIFI/GPRS (optional)	
Warranty	5 Years /10 Years /15 Years /20 Years	