

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

## Solis Single Phase Inverters



360 degree

### Features:

- ▶ Max. efficiency 98.1%
- ▶ Complies with all state network requirements
- ▶ Integrate with adjustable Volt-Watt and Volt-Var function
- ▶ DRM integrated, fully comply with AS4777.2:2020
- ▶ Built-in DC-PV2 Switch (optional), comply with AS/NZS 5033 requirements
- ▶ Support 24h consumption monitoring with a smart meter
- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ Wide voltage range and low startup voltage
- ▶ AFCI protection, proactively reduces fire risk
- ▶ Integrated Export Power Manager(EPM)
- ▶ Voltage active power and reactive power
- ▶ Lightweight, only 13.3kg – easy installation
- ▶ Friendly and adaptable connection to the grid



### Model:

Solis-1P7K-5G

Solis-1P8K-5G

## Datasheet

Model Name	Solis-1P7K-5G	Solis-1P8K-5G
<b>Input DC</b>		
Recommended max. PV power	9.3 kW	10.6 kW
Max. input voltage	600 V	
Rated voltage	330 V	
Start-up voltage	120 V	
MPPT voltage range	90-520 V	
Max. input current	12.5 A / 25 A	
Max. short circuit current	19.5 A / 30 A	
MPPT number/Max. input strings number	2/3	
<b>Output AC</b>		
Rated output power	7 kW	8 kW
Rated apparent output power	7 kVA	8 kVA
Max. apparent output power	7 kVA	8 kVA
Max. output power	7 kW	8 kW
Rated grid voltage	1/N/PE, 230 V	
Rated grid frequency	50 Hz	
Rated grid output current	33.5 A	34.8 A
Max. output current	33.5 A	34.8 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
<b>Efficiency</b>		
Max. efficiency	98.1%	
EU efficiency	97.3%	
<b>Protection</b>		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Surge protection	Yes	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Temperature protection	Yes	
Integrated DC switch	Optional (PV2 Switch)	
Integrated AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>	
<b>General Data</b>		
Dimensions (W*H*D)	310*543*180 mm	
Weight	13.3 kg	
Topology	Transformerless	
Self consumption (night)	<1 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP65	
Cooling concept	Natural convection	
Max. operation altitude	2000 m	
Grid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530	
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4	
<b>Features</b>		
DC connection	MC4 connector	
AC connection	Quick connection plug	
Display	LCD	
Communication	RS485, Optional: Wi-Fi, GPRS	
Country of manufacture	China	

(1) Activation required.