

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

Solis Single Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 98.1%
- ▶ Complies with Western Power, SA, VIC, QLD, and NSW grid requirements
- ▶ Integrate with adjustable Volt-Watt and Volt-Var function
- ▶ DRM integrated, fully comply with AS4777.2:2015
- ▶ 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
- ▶ 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
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Input DC

Recommended max. PV power	9100 W	10400 W
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 / 39 A	
MPPT number/Max. input strings number	2/3	

Output AC

Rated output power	7000 W	8000 W
Max. apparent output power	7700 VA	8000 VA
Max. output power	7700 W	8000 W
Rated grid voltage	1/N/PE, 230 V	
Rated grid frequency	50 Hz	
Rated grid output current	30.4 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%	

Efficiency

Max. efficiency	98.1%
EU efficiency	97.3%

Protection

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)

General Data

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	4000 m
Grid connection standard	AS/NZS 4777.2
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4

Features

DC connection	MC4 connector
AC connection	Quick connection plug
Display	LCD
Communication	RS485, Optional: Wi-Fi, GPRS