

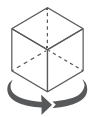
## Solis-1P(7-8)K-5G

Solis Single Phase Inverters

### >> Models:

Solis-1P7K-5G

Solis-1P8K-5G



360° View



### Features:

- Max. efficiency 98.1%
- Wide voltage range and low startup voltage
- 2 MPPT design with precise MPPT algorithm
- Intergrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

**DATASHEET****Solis-1P(7-8)K-5G****Models****7K****8K****Input DC**

Recommended max. PV power	10.5 kW	12 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	

**Output AC**

Rated output power	7 kW	8 kW
Max. apparent output power	7.7 kVA	8 kVA
Max. output power	7.7 kW	8 kW
Rated grid voltage	1/N/PE, 220 V / 230 V	
Rated grid frequency	50 Hz / 60 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 AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>
Integrated DC switch	Optional

**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	G99, EN 50549-1, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4

**Features**

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

(1) Activation required.