

# Solis-1P(4-5)K-4G

Solis Single Phase Inverters



360 degree

## Features:

- ▶ Max. efficiency 98.1%
- ▶ Super high frequency switching technology
- ▶ 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



## Model:

Solis-1P4K-4G

Solis-1P5K-4G

## Datasheet

Model Name	Solis-1P4K-4G	Solis-1P5K-4G
<b>Input DC</b>		
Recommended max. PV power	6 kW	7.5 kW
Max. input voltage	600 V	
Rated voltage	330 V	
Start-up voltage	120 V	
MPPT voltage range	90-520 V	
Max. input current	11 A / 11 A	
Max. short circuit current	17.2 A / 17.2 A	
MPPT number/Max. input strings number	2/2	
<b>Output AC</b>		
Rated output power	4 kW	5 kW
Max. apparent output power	4.4 kVA	5 kVA
Max. output power	4.4 kW	5 kW
Rated grid voltage	1/N/PE, 220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	18.2 A / 17.4 A	22.7 A / 21.7 A
Max. output current	21.0 A	25.0 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)	
THDi	<3%	
DC injection current	<0.5% I <sub>n</sub>	
<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 AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>	
Integrated DC switch	Yes	
<b>General Data</b>		
Dimensions (W*H*D)	310*543*160 mm	
Weight	11.5 kg	
Topology	Transformerless	
Self consumption (night)	<1 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP65	
Noise emission (typical)	<20 dB(A)	
Cooling concept	Natural convection	
Max. operation altitude	4000 m	
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)	
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-2/-3	
<b>Features</b>		
DC connection	MC4 connector	
AC connection	Quick connection plug	
Display	LCD	
Communication	RS485, Optional: DLS-W, DLS-G	

(1) Activation required.