

S6-GR1P(4-5)K

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.7%
- String current up to 14A
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- 2 MPPT design with precise MPPT algorithm
- Integrated Export Power Manager (EPM)
- AFCI protection, proactively reduces fire risk
- Compact and lightweight
- Friendly and adaptable connection to the grid

Models:

S6-GR1P4K / S6-GR1P5K



360° View



DATASHEET

S6-GR1P(4-5)K

Models	4K	5K
Input DC		
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	14 A / 14 A	
Max. short circuit current	22 A / 22 A	
MPPT number/Max. input strings number	2/2	
Output AC		
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 _n	
Efficiency		
Max. efficiency	97.6%	97.7%
EU efficiency	97.1%	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Insulation resistance monitoring	Yes	
Residual current detection	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 ⁽¹⁾	
Integrated DC switch	Yes	
General Data		
Dimensions (W*H*D)	310*543*160 mm	
Weight	12 kg	
Topology	Transformerless	
Self-consumption (night)	<1 W	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP66	
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	
Features		
DC connection	MC4 connector	
AC connection	Quick connection plug	
Display	LCD	
Communication	RS485, Optional: S3-WiFi-ST, S3-GRPS-ST	

(1) Activation required.