

S6-GR1P(3-6)K-S

Solis Single Phase Grid-Tied Inverters

Features:

- String current up to 16A
- Integrated with zero export power control function
- Light weight with compact design for easy installation
- 2 MPPT design with precise MPPT algorithm

Models:

S6-GR1P3K-S / S6-GR1P3.6K-S

S6-GR1P4K-S / S6-GR1P4.6K-S

S6-GR1P5K-S / S6-GR1P6K-S



DATASHEET

S6-GR1P(3-6)K-S

Models	3K	3.6K	4K	4.6K	5K	6K
Input DC						
Recommended max. PV power	4 kW	4.8 kW	5.3 kW	6.1 kW	6.7 kW	8 kW
Max. input voltage	550 V					
Rated voltage	330 V					
Start-up voltage	100 V					
MPPT voltage range	90 - 550 V					
Max. input current	16 A / 16 A					
Max. short circuit current	22 A / 22 A					
MPPT number / Max. input strings number	2 / 2					
Output AC						
Rated output power	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Rated apparent output power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max. apparent output power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max. output power	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Rated grid voltage	1/N/PE, 230 V					
Rated grid frequency	50 Hz					
Rated grid output current	13.0 A	15.7 A	17.4 A	20.0 A	21.7 A	26.1 A
Max. output current	13.0 A	15.7 A	17.4 A	20.0 A	21.7 A	26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)					
THDi	< 3%					
Efficiency						
Max. efficiency	97.3%		97.6%		97.7%	
EU efficiency	96.6%		97.1%		97.1%	
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					
Multi peak scan	Yes					
Integrated AFCI 2.0	Optional					
Integrated DC switch	Yes (PV2 Switch)					
General Data						
Dimensions (W × H × D)	330 × 371 × 161 mm					
Weight	8.3 kg		8.9 kg		9 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 cooling			Natural cooling with internal fan		
Max. operation altitude	4000 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 61000-6-2/-3					
Features						
DC connection	MC4 connector					
AC connection	Quick connection plug					
Display	LED digital display & Bluetooth + APP					
Communication	RS485, USB, Optional: Wi-Fi, GPRS					
Country of manufacture	China					