

S6-GR1P(1-3)K-M

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.1%
- String current up to 14A
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- 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-GR1P1K-M / S6-GR1P1.5K-M

S6-GR1P2K-M / S6-GR1P2.5K-M

S6-GR1P3K-M



360° View



DATASHEET

S6-GR1P(1-3)K-M

Models	1K	1.5K	2K	2.5K	3K
Input DC					
Recommended max. PV power	1.5 kW	2.3 kW	3 kW	3.8 kW	4.5 kW
Max. input voltage	600 V				
Rated voltage	200 V		330 V		
Start-up voltage	60 V		90 V		
MPPT voltage range	50-500 V		80-500 V		
Max. input current	14 A				
Max. short circuit current	22 A				
MPPT number/Max. input strings number	1/1				
Output AC					
Rated output power	1 kW	1.5 kW	2 kW	2.5 kW	3 kW
Max. apparent output power	1.1 kVA	1.65 kVA	2.2 kVA	2.75 kVA	3.3 kVA
Max. output power	1.1 kW	1.65 kW	2.2 kW	2.75 kW	3.3 kW
Rated grid voltage	1/N/PE, 220 V / 230 V				
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	4.5 A / 4.3 A	6.8 A / 6.5 A	9.1 A / 8.7 A	11.4 A / 10.9 A	13.6 A / 13 A
Max. output current	5.2 A	8.1 A	10.5 A	13.3 A	15.7 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<3%				
DC injection current	<0.5% I _n				
Efficiency					
Max. efficiency	96.6%	96.6%	97.1%		97.1%
EU efficiency	95.3%	95.4%	96.4%		96.7%
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*373*160 mm				
Weight	7.4 kg		7.7 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 61000-6-1/-2/-3/-4				
Features					
DC connection	MC4 connector				
AC connection	Quick connection plug				
Display	LCD				
Communication	RS485, Optional: S3-WiFi-ST, S3-GRPS-ST				

(1) Activation required.