

S6-GR1P(1-3)K-M

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.1%
- String current up to 16A
- Super high frequency switching technology
- Wide voltage range and low startup voltage
- Precise MPPT algorithm
- Compact and lightweight
- Friendly and adaptable connection to the grid

Models:

S6-GR1P1K-M

S6-GR1P2K-M

S6-GR1P3K-M



360° View



DATASHEET

S6-GR1P(1-3)K-M

Models	1K	2K	3K
Input DC			
Recommended max. PV power	1.5 kW	3 kW	4.5 kW
Max. input voltage	550V		
Rated voltage	200 V	330 V	
Start-up voltage	50V	80 V	
MPPT voltage range	40-500V	70-500 V	
Max. input current	16A		
Max. short circuit current	22 A		
MPPT number/Max. input strings number	1/1		
Output AC			
Rated output power	1 kW	2 kW	3 kW
Max. apparent output power	1.1 kVA	2.2 kVA	3.3 kVA
Max. output power	1.1 kW	2.2 kW	3.3 kW
Rated grid voltage	1/N/PE, 220 V / 230 V		
Rated grid frequency	50 Hz		
Rated grid output current	4.5 A / 4.3 A	9.1 A / 8.7 A	13.6 A / 13 A
Max. output current	5.0A	10.0 A	15.0 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)		
THDi	<3%		
DC injection current	<0.5% In		
Efficiency			
Max. efficiency	96.6%	97.1%	97.1%
EU efficiency	95.3%	96.4%	96.4%
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	T3 (DC), T2 (AC)		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Temperature protection	Yes		
Integrated AFCI (DC arc-fault circuit protection)	Yes ⁽¹⁾		
Integrated DC switch	No		
General Data			
Dimensions (W*H*D)	310*373*160 mm		
Weight	7.1kg	7.4 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.