

S5-GR1P(0.7-3)K-M

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.1%
- Max. input current 14A
- Complies with all state network requirements
- Integrate with adjustable Volt-Watt and Volt-Var function
- DRM integrated, fully comply with AS/NZS 4777.2:2020
- Built-in DC-PV2 Switch, comply with AS/NZS 5033 requirements
- Support 24h consumption monitoring with a smart meter
- Super high frequency switching technology
- AFCI protection, proactively reduces fire risk
- Precise MPPT algorithm
- Integrated Export Power Manager (EPM)
- Compact and lightweight
- Voltage active power and reactive power

Models:

S5-GR1P0.7K-M / S5-GR1P1K-M

S5-GR1P1.5K-M / S5-GR1P2K-M

S5-GR1P2.5K-M / S5-GR1P3K-M



DATASHEET

S5-GR1P(0.7-3)K-M

Models	0.7K	1K	1.5K	2K	2.5K	3K
Input DC						
Recommended max. PV power	0.93 kW	1.33 kW	2 kW	2.6 kW	3.33 kW	4 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	0.7 kW	1 kW	1.5 kW	2 kW	2.5 kW	3 kW
Rated apparent output power	0.7 kVA	1 kVA	1.5 kVA	2 kVA	2.5 kVA	3 kVA
Max. apparent output power	0.7 kVA	1 kVA	1.5 kVA	2 kVA	2.5 kVA	3 kVA
Max. output power	0.7 kW	1 kW	1.5 kW	2 kW	2.5 kW	3 kW
Rated grid voltage	1/N/PE, 230 V					
Rated grid frequency	50 Hz					
Rated grid output current	4.4 A	5.2 A	8.1 A	10.5 A	13.3 A	15.7 A
Max. output current	4.4 A	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%					
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					
Output over current protection	Yes					
Surge protection	Yes					
Grid monitoring	Yes					
Anti-islanding protection	Yes					
Temperature protection	Yes					
Multi peak scan	Yes					
Integrated AFCI	Yes ⁽¹⁾					
Integrated DC switch	Yes (PV2 Switch)					
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	IP65					
Noise emission (typical)	< 20 dB(A)					
Cooling concept	Natural cooling					
Max. operation altitude	2000 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 61000-6-1/-2/-3/-4					
Features						
DC connection	MC4 connector					
AC connection	Quick connection plug					
Display	LCD					
Communication	RS485, Optional: Wi-Fi, GPRS					
Country of manufacture	China					

(1) Activation required.