

S5-GR1P(7-10)K

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 98.0%
- 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
- 3 MPPT design with precise MPPT algorithm
- AFCI protection, proactively reduces fire risk
- Integrated Export Power Manager(EPM)
- Compact and lightweight
- Voltage active power and reactive power

Models:

S5-GR1P7K / S5-GR1P8K

S5-GR1P9K / S5-GR1P10K



DATASHEET

S5-GR1P(7-10)K

Models	7K	8K	9K	10K
Input DC				
Recommended max. PV power	9.3 kW	10.6 kW	12 kW	13.3 kW
Max. input voltage	600 V			
Rated voltage	330 V			
Start-up voltage	120 V			
MPPT voltage range	100 - 500 V			
Max. input current	14 A / 14 A / 14 A			
Max. short circuit current	22 A / 22 A / 22 A			
MPPT number / Max. input strings number	3 / 3			
Output AC				
Rated output power	7 kW	8 kW	9 kW	10 kW
Rated apparent output power	7 kVA	8 kVA	9 kVA	10 kVA
Max. apparent output power	7 kVA	8 kVA	9 kVA	10 kVA
Max. output power	7 kW	8 kW	9 kW	10 kW
Rated grid voltage	1/N/PE, 230 V			
Rated grid frequency	50 Hz			
Rated grid output current	33.7 A	36.6 A	41.3 A	45.9 A
Max. output current	33.7 A	36.6 A	41.3 A	45.9 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)			
THDi	< 3%			
Efficiency				
Max. efficiency	98.0%			
EU efficiency	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			
Multi peak scan	Yes			
Temperature protection	Yes			
Integrated AFCI 2.0	Optional			
Integrated DC switch	Yes (PV2 Switch)			
General Data				
Dimensions (W × H × D)	333 × 579 × 253 mm			
Weight	18.5 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)	< 30 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 61683			
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4			
Features				
DC connection	MC4 connector			
AC connection	OT Terminal			
Display	LCD			
Communication	RS485, Optional: Wi-Fi, GPRS			
Country of manufacture	China			