

S5-GR1P(3-6)K

Solis Single Phase Grid-Tied Inverters

Features:

- Max. efficiency 97.7%
- Wide voltage range and low startup voltage
- Supports export power control
- AFCI protection, proactively reduces fire risk
- 24-hour load consumption monitoring
- DRM integrated, fully comply with AS/NZS 4777.2:2020
- Built-in DC-PV2 Switch, comply with AS/NZS 5033 requirements

Models:

S5-GR1P3K / S5-GR1P3.6K

S5-GR1P4K / S5-GR1P4.6K

S5-GR1P5K / S5-GR1P6K



- Wi-Fi communication dongle included

DATASHEET

S5-GR1P(3-6)K

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	600 V					
Rated voltage	330 V					
Start-up voltage	120 V					
MPPT voltage range	90 - 520 V					
Max. input current	14 A / 14 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	15.7 A	16.0 A	21.0 A	23.8 A	25.0 A	27.3 A
Max. output current	15.7 A	16.0 A	21.0 A	23.8 A	25.0 A	27.3 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	Yes ⁽¹⁾					
Integrated DC switch	Yes (PV2 Switch)					
General Data						
Dimensions (W × H × D)	310 × 543 × 160 mm					
Weight	11.2 kg		12 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 61000-6-2/-3					
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.