

S6-GR3P(5-10)K03-NV-ND-AU

Solis Three Phase Grid-Tied Inverters

Features:

- String current up to 20A
- > 150% DC/AC ratio, supports high power modules
- 3 MPPT designs, applies for complex rooftop scenarios
- Supports RS485/ WiFi/GPRS/4G
- Scan to register on SolisCloud, supports remote upgrade and control
- Scrolling information display, making it easier to monitor inverter operation
- AFCI protection, proactively reduces fire risk
- Automatic voltage stabilization technology in weak grid conditions

Models:

S6-GR3P5K03-NV-ND-AU

S6-GR3P6K03-NV-ND-AU

S6-GR3P8K03-NV-ND-AU

S6-GR3P9K03-NV-ND-AU

S6-GR3P9.9K03-NV-ND-AU

S6-GR3P10K03-NV-ND-AU



DATASHEET

S6-GR3P(5-10)K03-NV-ND-AU

Models	5K	6K	8K	9K	9.9K	10K
Input DC						
Recommended max. PV power	6.7 kW	8 kW	10.6 kW	12 kW	15 kW	13.3 kW
Max. input voltage	1100 V					
Rated voltage	600 V					
Start-up voltage	160 V					
MPPT voltage range	160 - 1000 V					
Max. input current	20 A / 20 A / 20 A					
Max. short circuit current	25 A / 25 A / 25 A					
MPPT number / Max. input strings number	3 / 3					
Output AC						
Rated output power	5 kW	6 kW	8 kW	9 kW	9.9 kW	10 kW
Rated apparent output power	5 kVA	6 kVA	8kVA	9 kVA	9.9kVA	10 kVA
Max. apparent output power	5 kVA	6 kVA	8kVA	9 kVA	9.9kVA	10 kVA
Max. output power	5 kW	6 kW	8 kW	9 kW	9.9 kW	10 kW
Rated grid voltage	3/N/PE, 230 V / 400 V					
Rated grid frequency	50 Hz					
Rated grid output current	7.9 A	9.5 A	12.7 A	14.3 A	15.7 A	15.9 A
Max. output current	7.9 A	9.5 A	12.7 A	14.3 A	15.7 A	15.9 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)					
THDi	< 3%					
Efficiency						
Max. efficiency	98.0%			98.2%		
EU efficiency	97.4%			97.6%		
Protection						
DC reverse-polarity protection	Yes					
Short circuit protection	Yes					
Output over current protection	Yes					
Surge protection	Yes					
Grid monitoring	Yes					
Temperature protection	Yes					
Multi peak scan	Yes					
Integrated AFCI 2.0	Optional					
Integrated DC switch	Yes (PV2 Switch)					
General Data						
Dimensions (W × H × D)	355 × 410 × 179 mm					
Weight	14.7 kg		15.4 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)	< 40 dB(A)					
Cooling concept	Natural cooling					
Max. operation altitude	3000 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	LED digital display & Bluetooth + APP					
Communication	RS485, Optional: Wi-Fi, GPRS					
Country of manufacture	China					