

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	13.2 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	9.9 kVA	10 kVA
Max. apparent output power	5 kVA	6 kVA	8kVA	9 kVA	9.9 kVA	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					
Protective class / Over voltage category	Class I / II(PV), III (MAINS)					
Anti-islanding protection method	Active frequency shifting					
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					