

## S5-GR3P(5-20)K

# Solis Three Phase Grid-Tied Inverters

### Efficient

- Max. efficiency 98.7%
- String current up to 16A
- Wide voltage range and low startup voltage

### Safe

- IP66
- AFCI protection, proactively reduces fire risk
- Automatic voltage stabilization technology in weak grid condition

### Smart

- Support export power control
- Support RS485, WiFi, GPRS
- Scan to register on SolisCloud, support remote upgrade and control

### Economic

- Compact design with easy maintenance and installation
- > 130% DC/AC ratio
- Support large module with lower installation cost

### Models:

S5-GR3P5K-AU / S5-GR3P6K-AU

S5-GR3P8K-AU / S5-GR3P9K-AU

S5-GR3P10K-AU / S5-GR3P12K

S5-GR3P13K / S5-GR3P15K

S5-GR3P17K / S5-GR3P20K



360° View



• Wi-Fi communication dongle included

## DATASHEET

## S5-GR3P(5-20)K

Models	5K-AU	6K-AU	8K-AU	9K-AU	10K-AU	12K	13K	15K	17K	20K
<b>Input DC</b>										
Recommended max. PV power	6.7 kW	8 kW	10.6 kW	12 kW	13.3 kW	16 kW	17.3 kW	20 kW	22.6 kW	26.6 kW
Max. input voltage						1100 V				
Rated voltage						600 V				
Start-up voltage						180 V				
MPPT voltage range						160 - 1000 V				
Max. input current	32 A / 16 A					32 A / 32 A				
Max. short circuit current	40 A / 20 A					40 A / 40 A				
MPPT number / Max. input strings number	2 / 2					2 / 4				
<b>Output AC</b>										
Rated output power	5 kW	6 kW	8 kW	9 kW	10 kW	12 kW	13 kW	15 kW	17 kW	20 kW
Rated apparent output power	5 kVA	6 kVA	8 kVA	9 kVA	10 kVA	12 kVA	13 kVA	15 kVA	17 kVA	20 kVA
Max. apparent output power	5 kVA	6 kVA	8 kVA	9 kVA	10 kVA	12 kVA	13 kVA	15 kVA	17 kVA	20 kVA
Max. output power	5 kW	6 kW	8 kW	9 kW	10 kW	12 kW	13 kW	15 kW	17 kW	20 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	15.9 A	19.1 A	20.7 A	23.8 A	27 A	31.8 A
Max. output current	7.9 A	9.5 A	12.7 A	14.3 A	15.9 A	19.1 A	20.7 A	23.8 A	27 A	31.8 A
Power factor					> 0.99 (0.8 leading - 0.8 lagging)					
THDi					< 2%					
<b>Efficiency</b>										
Max. efficiency	98.3%		98.5%			98.6%			98.7%	
EU efficiency	97.7%		97.9%			98.0%			98.1%	
<b>Protection</b>										
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 2.0					Optional					
Integrated DC switch					Yes (PV2 Switch)					
<b>General Data</b>										
Dimensions (W x H x D)					310 x 563 x 219 mm					
Weight	18.9 kg				19.6 kg			20.8 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)					< 60 dB(A)					
Cooling concept					Intelligent fan-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					
<b>Features</b>										
DC connection					MC4 connector					
AC connection					Quick connection plug					
Display					LCD					
Communication					RS485, Optional: Wi-Fi, GPRS					
Country of manufacture					China					