

S5-GR3P(5-25)K-AU

Solis Three Phase Inverters



360 degree

Model:

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 S5-GR3P25K



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

Datasheet

Model Name	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	S5-GR3P25K
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Input DC

Recommended max. PV power	6.7 kW	8 kW	10.6 kW	12 kW	13 kW	16 kW	17.3 kW	20 kW	23 kW	27 kW	33 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	50 A / 25 A					50 A / 50 A					
MPPT number/Max. input strings number	2/2					2/4					

Output AC

Rated output power	5 kW	6 kW	8 kW	9 kW	10 kW	12 kW	13 kW	15 kW	17 kW	20 kW	25 kW
Rated output apparent power	5 kVA	6 kVA	8 kVA	9 kVA	10 kVA	12 kVA	13 kVA	15 kVA	17 kVA	20 kVA	25 kVA
Max. apparent output power	5 kVA	6 kVA	8 kVA	9 kVA	10 kVA	12 kVA	14 kVA	15 kVA	17 kVA	20 kVA	25 kVA
Max. output power	5 kW	6 kW	8 kW	9 kW	10 kW	12 kW	15 kW	15 kW	17 kW	20 kW	25 kW
Rated grid voltage	3/N/PE, 230 V / 400 V										
Rated grid frequency	50 Hz										
Rated grid output current	7.2 A	8.7 A	11.5 A	13 A	14.4 A	17.3 A	18.8 A	21.7 A	24.6 A	28.9 A	36.1 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	39.7 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)										
THDi	<2%										

Efficiency

Max. efficiency	98.3%		98.5%			98.6%			98.7%		98.7%
EU efficiency	97.7%		97.9%			98.0%			98.1%		98.2%

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										
Integrated DC switch	Optional (PV2 Switch)										

General Data

Dimensions (W*H*D)	310*563*219 mm										
Weight	17.8 kg					18.8 kg		20 kg		20.5 kg	
Topology	Transformerless										
Self consumption (night)	<1 W										
Operating ambient temperature range	-25 ~ +60°C										
Relative humidity	0-100%										
Ingress protection	IP66										
Cooling concept	Intelligent redundant 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										

Features

DC connection	MC4 connector										
AC connection	Quick connection plug										
Display	LCD										
Communication	RS485, Optional: Wi-Fi, GPRS										
Country of manufacture	China										