



GINLONG TECHNOLOGIES CO.,LTD.

## 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 conditions

### Smart

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

### Economic

- Compact design, simple installation and maintenance
- > 150% DC/AC ratio
- Supports high power modules for lower installation costs

### Models:

S5-GR3P5K / S5-GR3P6K

S5-GR3P8K / S5-GR3P10K

S5-GR3P12K / S5-GR3P13K

S5-GR3P15K / S5-GR3P17K

S5-GR3P20K



360° View



## DATASHEET

## S5-GR3P(5-20)K

Models	5K	6K	8K	10K	12K	13K	15K	17K	20K
<b>Input DC</b>									
Recommended max. PV power	7.5 kW	9 kW	12 kW	15 kW	18 kW	19.5 kW	22.5 kW	25.5 kW	30 kW
Max. input voltage					1100 V				
Rated voltage					600 V				
Start-up voltage					180 V				
MPPT voltage range					160-1000 V				
Max. input current		16 A / 16 A				32 A / 32 A			
Max. short circuit current		20 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	10 kW	12 kW	13 kW	15 kW	17 kW	20 kW
Max. apparent output power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	13.2 kVA	14.3 kVA	16.5 kVA	18.7 kVA	22 kVA
Max. output power	5.5 kW	6.6 kW	8.8 kW	11 kW	13.2 kW	14.3 kW	16.5 kW	18.7 kW	22 kW
Rated grid voltage				3/N/PE, 220 V / 380 V, 230 V / 400 V					
Rated grid frequency				50 Hz / 60 Hz					
Rated grid output current	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	15.2 A / 14.4 A	18.2 A / 17.3 A	19.8 A / 18.8 A	22.8 A / 21.7 A	25.8 A / 24.6 A	30.4 A / 28.9 A
Max. output current	7.9 A	9.5 A	12.7 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%					
DC injection current				<0.5% In					
<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				
Insulation resistance monitoring					Yes				
Residual current detection					Yes				
Surge protection					Yes				
Grid monitoring					Yes				
Anti-islanding protection					Yes				
Temperature protection					Yes				
Integrated AFCI (DC arc-fault circuit protection)					Yes <sup>(1)</sup>				
Integrated DC switch					Yes				
<b>General Data</b>									
Dimensions (W*H*D)				310*563*219 mm					
Weight	16.9 kg		17.9 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)		<30 dB(A)			<60 dB(A)				
Cooling concept		Natural convection			Intelligent redundant fan-cooling				
Max. operation altitude				4000 m					
Grid connection standard		IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169 / IS 16221(BIS)							
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: S3-WiFi-ST, S3-GRPS-ST					

(1) Activation required.