

## S5-GR3P(3-20)K

# Solis Three Phase 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-GR3P3K / S5-GR3P4K

S5-GR3P5K / S5-GR3P6K

S5-GR3P8K / S5-GR3P9K

S5-GR3P10K / S5-GR3P12K

S5-GR3P13K / S5-GR3P15K

S5-GR3P17K / S5-GR3P20K



360° View

## DATASHEET

## S5-GR3P(3-20)K

Models	3K	4K	5K	6K	8K	9K	10K	12K	13K	15K	17K	20K	
<b>Input DC</b>													
Recommended max. PV power	4.5 kW	6 kW	7.5 kW	9 kW	12 kW	13.5 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	3 kW	4 kW	5 kW	6 kW	8 kW	9 kW	10 kW	12 kW	13 kW	15 kW	17 kW	20 kW	
Max. apparent output power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA	9.9 kVA	11 kVA	13.2 kVA	14.3 kVA	16.5 kVA	18.7 kVA	22 kVA	
Max. output power	3.3 kW	4.4 kW	5.5 kW	6.6 kW	8.8 kW	9.9 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					
Rated grid output current	4.6 A / 4.3 A	6.1 A / 5.8 A	7.6 A / 7.2 A	9.1 A / 8.7 A	12.2 A / 11.5 A	13.7 A / 13.0 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	4.7 A	6.4 A	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					
Integrated AFCI (DC arc-fault circuit protection)								Yes <sup>(1)</sup>					
Integrated DC switch								Optional					
<b>General Data</b>													
Dimensions (W*H*D)								310*563*219 mm					
Weight					17.8 kg				18.8 kg		20 kg		
Topology								Transformerless					
Self-consumption (night)								<1 W					
Operating ambient temperature range								-25 ~ +60°C					
Relative humidity								0-100%					
Ingress protection								IP66					
Cooling concept					Natural convection				Intelligent redundant fan-cooling				
Max. operation altitude					4000 m								
Grid connection standard					G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530								
Safety/EMC standard					IEC/EN 62109-1/-2, IEC/EN 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					

(1) Activation required.