

## S5-GR3P(3-20)K/BE

Solis Three Phase Inverters

### >> Models:

S5-GR3P3K	S5-GR3P12K
S5-GR3P4K	S5-GR3P13K
S5-GR3P5K	S5-GR3P15K
S5-GR3P6K	S5-GR3P17K
S5-GR3P8K	S5-GR3P20K
S5-GR3P9K	S5-GR3P8K-BE
S5-GR3P10K	S5-GR3P10K-BE



360° View



### Efficient

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

### Smart

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

### Safe

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

### Economic

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

## DATASHEET

## S5-GR3P(3-20)K/BE

## Models

3K | 4K | 5K | 6K | 8K | 9K | 10K | 12K | 13K | 15K | 17K | 20K | 8K-BE | 10K-BE

## Input DC

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	12 kW	15 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							

## Output AC

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	8 kW	10 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	8.8 kVA	10 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	8.8 kW	10 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V												3/N/PE, 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	11.5 A	14.4 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	12.7 A	14.4 A
Power factor	>0.99 (0.8 leading - 0.8 lagging)													
THDi	<2%													

## Efficiency

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

## 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 AFCI (DC arc-fault circuit protection)	Yes <sup>(1)</sup>													
Integrated DC switch	Optional													

## General Data

Dimensions (W*H*D)	310*563*219 mm													
Weight	17.8 kg						18.8 kg			20 kg			17.8 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						Natural convection	
Max. operation altitude	4000 m													
Grid connection standard	C10/11, G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / D 244 / UNE 206006 / UNE 206007-1, CEI 0-21, 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													

## Features

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

(1) Activation required.



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