

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 |
| 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% | 98.5% | 98.5% | 98.6% | 98.6% | 98.7% |
| EU efficiency | 97.9% | 98.1% | 98.2% | 98.2% | 98.2% | 98.2% | 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 | 18.9 kg | 20.3 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 | 4000 m | | |
| Grid connection standard | AS/NZS 4777.2, 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 |