

S5-GR1P(3-6)K

Solis Single Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 97.7%
- ▶ Max. input current **14A**
- ▶ Complies with all state network requirements
- ▶ Integrate with adjustable Volt-Watt and Volt-Var function
- ▶ DRM integrated, fully comply with AS/NZS 4777.2:2020
- ▶ Built-in DC-PV2 Switch (optional), comply with AS/NZS 5033 requirements
- ▶ Support 24h consumption monitoring with a smart meter
- ▶ Super high frequency switching technology
- ▶ 2 MPPT design with precise MPPT algorithm
- ▶ Integrated Export Power Manager(EPM)
- ▶ Compact and lightweight
- ▶ Voltage active power and reactive power



Model:

| | |
|-----------|-------------|
| S5-GR1P3K | S5-GR1P3.6K |
| S5-GR1P4K | S5-GR1P4.6K |
| S5-GR1P5K | S5-GR1P6K |

Datasheet

| Model Name | S5-GR1P3K | S5-GR1P3.6K | S5-GR1P4K | S5-GR1P4.6K | S5-GR1P5K | S5-GR1P6K |
|------------|-----------|-------------|-----------|-------------|-----------|-----------|
|------------|-----------|-------------|-----------|-------------|-----------|-----------|

Input DC

| | | | | | | |
|---------------------------------------|-------------|--------|--------|--------|--------|------|
| Recommended max. PV power | 4 kW | 4.8 kW | 5.3 kW | 6.1 kW | 6.7 kW | 8 kW |
| Max. input voltage | 600 V | | | | | |
| Rated voltage | 330 V | | | | | |
| Start-up voltage | 120 V | | | | | |
| MPPT voltage range | 90-520 V | | | | | |
| Max. input current | 14 A / 14 A | | | | | |
| Max. short circuit current | 22 A / 22 A | | | | | |
| MPPT number/Max. input strings number | 2/2 | | | | | |

Output AC

| | | | | | | |
|-----------------------------|-----------------------------------|---------|--------|---------|--------|--------|
| Rated output power | 3 kW | 3.6 kW | 4 kW | 4.6 kW | 5 kW | 6 kW |
| Rated output apparent power | 3 kVA | 3.6 kVA | 4 kVA | 4.6 kVA | 5 kVA | 6 kVA |
| Max. apparent output power | 3 kVA | 3.6 kVA | 4 kVA | 4.6 kVA | 5 kVA | 6 kVA |
| Max. output power | 3 kW | 3.6 kW | 4 kW | 4.6 kW | 5 kW | 6 kW |
| Rated grid voltage | 1/N/PE, 230 V | | | | | |
| Rated grid frequency | 50 Hz | | | | | |
| Rated grid output current | 13.0 A | 15.7 A | 17.4 A | 20.0 A | 21.7 A | 26.1 A |
| Max. output current | 15.7 A | 16.0 A | 21.0 A | 23.8 A | 25.0 A | 27.3 A |
| Power Factor | >0.99 (0.8 leading - 0.8 lagging) | | | | | |
| THDi | <3% | | | | | |

Efficiency

| | | | | | | |
|-----------------|-------|--|-------|--|-------|--|
| Max. efficiency | 97.3% | | 97.6% | | 97.7% | |
| EU efficiency | 96.6% | | 97.1% | | 97.1% | |

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*543*160 mm | |
| Weight | 11.2 kg | 12 kg |
| Topology | Transformerless | |
| Self consumption (night) | <1 W | |
| Operating ambient temperature range | -25 ~ +60°C | |
| Relative humidity | 0-100% | |
| Ingress protection | IP65 | |
| Cooling concept | Natural convection | |
| 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 61000-6-2/-3 | |

Features

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