

S5-GR1P(0.7-3)K-M

Solis Mini Series Inverters



360 degree

Features:

- ▶ Max. efficiency 97.1%
- ▶ 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
- ▶ AFCI protection, proactively reduces fire risk
- ▶ Precise MPPT algorithm
- ▶ Integrated Export Power Manager (EPM)
- ▶ Compact and lightweight
- ▶ Voltage active power and reactive power



Model:

| | |
|---------------|-------------|
| S5-GR1P0.7K-M | S5-GR1P1K-M |
| S5-GR1P1.5K-M | S5-GR1P2K-M |
| S5-GR1P2.5K-M | S5-GR1P3K-M |

Datasheet

| Model Name | S5-GR1P0.7K-M | S5-GR1P1K-M | S5-GR1P1.5K-M | S5-GR1P2K-M | S5-GR1P2.5K-M | S5-GR1P3K-M |
|------------|---------------|-------------|---------------|-------------|---------------|-------------|
|------------|---------------|-------------|---------------|-------------|---------------|-------------|

Input DC

| | | | | | | |
|---------------------------------------|----------|---------|------|----------|---------|------|
| Recommended max. PV power | 0.93 kW | 1.33 kW | 2 kW | 2.6 kW | 3.33 kW | 4 kW |
| Max. input voltage | 600 V | | | | | |
| Rated voltage | 200 V | | | 330 V | | |
| Start-up voltage | 60 V | | | 90 V | | |
| MPPT voltage range | 50-500 V | | | 80-500 V | | |
| Max. input current | 14 A | | | | | |
| Max. short circuit current | 22 A | | | | | |
| MPPT number/Max. input strings number | 1/1 | | | | | |

Output AC

| | | | | | | |
|-----------------------------|-----------------------------------|-------|---------|--------|---------|--------|
| Rated output power | 0.7 kW | 1 kW | 1.5 kW | 2 kW | 2.5 kW | 3 kW |
| Rated apparent output power | 0.7 kVA | 1 kVA | 1.5 kVA | 2 kVA | 2.5 kVA | 3 kVA |
| Max. apparent output power | 0.7 kVA | 1 kVA | 1.5 kVA | 2 kVA | 2.5 kVA | 3 kVA |
| Max. output power | 0.7 kW | 1 kW | 1.5 kW | 2 kW | 2.5 kW | 3 kW |
| Rated grid voltage | 1/N/PE, 230 V | | | | | |
| Rated grid frequency | 50 Hz | | | | | |
| Rated grid output current | 4.4 A | 5.2 A | 8.1 A | 10.5 A | 13.3 A | 15.7 A |
| Max. output current | 4.4 A | 5.2 A | 8.1 A | 10.5 A | 13.3 A | 15.7 A |
| Power Factor | >0.99 (0.8 leading - 0.8 lagging) | | | | | |
| THDi | <3% | | | | | |

Efficiency

| | | | | | | |
|-----------------|-------|--|-------|-------|-------|--|
| Max. efficiency | 96.6% | | 96.6% | 97.1% | 97.1% | |
| EU efficiency | 95.3% | | 95.4% | 96.6% | 96.7% | |

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 | Yes (PV2 Switch) | | | | | |
| Integrated AFCI (DC arc-fault circuit protection) | Yes ⁽¹⁾ | | | | | |

General Data

| | | | | | | |
|-------------------------------------|--|--|--|--------|--|--|
| Dimensions (W*H*D) | 310*373*160 mm | | | | | |
| Weight | 7.4 kg | | | 7.7 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 61000-6-1/-2/-3/-4 | | | | | |

Features

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

(1) Activation required.