

Technical specification

G2 Sun Series Grid Tie Inverter

SUN-1000G2 / SUN-2000G2



G2 Sun Series Grid Tie Inverter Models

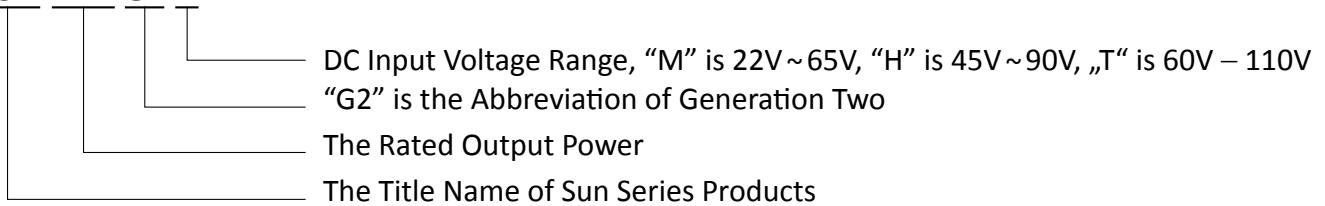
Sun series grid tie inverters include several models, refer to table 1.

Table 1, G2 Sun Series Grid Tie Inverter Models.

| Model | Rated Power (Max./Continuous) | DC Input Voltage | AC Output Voltage | AC Output Frequency | Max. Efficiency | Night Power Consumption |
|--------------|-------------------------------|------------------|-------------------|---------------------|-----------------|-------------------------|
| SUN-1000G2M | 1000 W / 900 W | 22 V~65 V | 95 V~265 V | 45 Hz~64 Hz | 90% | 1.0 W |
| SUN-1000G2H | 1000 W / 900 W | 45 V~90 V | 95 V~265 V | 45 Hz~64 Hz | 92% | 1.5 W |
| SUN-2000G2H | 2000 W / 1800 W | 45 V~90 V | 185 V~265 V | 45 Hz~64 Hz | 92% | 1.5 W |
| SUN-2000G2-T | 2000 W / 1800 W | 60 V~110 V | 185 V~265 V | 45 Hz~64 Hz | 92% | 1.5 W |

Model Name description:

SUN-XXX G2-X



Important Safety Information

Read this First!

This manual contains important instructions to follow during the installation and maintenance of the Sunshine Grid Tie Inverter.

To reduce the risk of electrical shock and ensure the safe installation and operation of the Sunshine Grid Tie Inverter, the following safety symbols appear throughout this document to indicate dangerous conditions and important safety instructions.



WARNING

This indicates a situation where failure to follow instructions maybe cause a safety hazard or equipment malfunction. Use extreme caution and follow instructions carefully.



NOTE

This indicates information particularly important for optimal system operation. Follow the instructions closely.

Technical Data of SUN Series Grid Tie Power Inverter

Table 3. Common Specifications for SUN Series Grid Tie Power Inverter

| INPUT DATA (DC) | SUN-XXXG2M | SUN-XXXG2H | SUN-XXXG2-T |
|----------------------------|-------------|-------------|--------------|
| Maximum Input DC Voltage | 65 V | 90 V | 110 V |
| MPPT Voltage Range | 25 V – 60 V | 50 V – 85 V | 70 V – 100 V |
| Operating DC Voltage Range | 22 V – 65 V | 45 V – 90 V | 60 V – 110 V |
| Startup Voltage | 25 V | 49 V | 69 V |

| OUTPUT DATA (AC) | SUN-1000G2-X | SUN-2000G2-X |
|-------------------------|------------------------------------------|-----------------------------------------|
| Nominal Voltage (Range) | 110 V (95 – 140 V) / 230 V (185 – 265 V) | 230 V (185 – 265 V) |
| Frequency (Range) | 50 Hz (45 – 55 Hz) / 60 Hz (56 – 64 Hz) | 50 Hz (45 – 55 Hz) / 60 Hz (56 – 64 Hz) |
| Power Factor | > 0.95 | > 0.95 |
| Output Wave form | Pure Sine Wave | Pure Sine Wave |

| CHARACTERISTIC DATA | SUN-XXX-X-X |
|-----------------------------|--------------|
| MPPT Efficiency | 99% |
| Over Current Protection | Yes |
| Temperature Protection | Yes |
| Reverse Polarity Protection | No |
| Anti-Island Protection | Yes Just for |
| Stackable | AC Output |
| Operating Temperature Range | -20°C ~ 45°C |
| Storage Temperature Range | -40°C ~ 65°C |

There are some common specifications of SUN Series Grid Tie Power Inverter shown in Table 3. Other electrical specifications of every model are listed in Table 1.

Weight and Dimension of SUN series Grid Tie Power Inverter

| Model | SUN-1000G2 | SUN- 2000G2 |
|--------------------|--------------------------|--------------------------|
| Net Weight | 4.0 Kg | 5.8 Kg |
| GrossWeight | 5.0 Kg | 7.0 Kg |
| Dimension(Package) | 430 mm x 310 mm x 155 mm | 540 mm x 310 mm x 155 mm |



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