

# GSMI SERIES MICRO SOLAR INVERTER

**1200W ~ 1400W ~ 1600W ~ 2000W**



## FEATURES

- ◆ IP65~IP67 waterproof level.
- ◆ Integrated AC bus cable, Ready-To-Use.
- ◆ WIFI communication and cloud monitoring.
- ◆ Output voltage is automatically recognized.
- ◆ Compatible with a variety of conventional solar panels.
- ◆ Unique reverse transmission technology gives priority to the load.
- ◆ Excellent low light lock function (APL) and higher conversion efficiency.

## Technical Data

| Model                               | GSMI-1200W   | GSMI-1400W | GSMI-1600W  | GSMI-2000W |
|-------------------------------------|--|------------|---|------------|
| <b>Input Data (DC, PV)</b>          |  |            |   |            |
| Number of Input MC4 Connector       | 4 sets   |            |   |            |
| MPPT Voltage Range                  | 22V-48V  |            |   |            |
| Operation Voltage Range             | 18V-60V  |            |   |            |
| Maximum Input Voltage               | 60V  |            |   |            |
| Startup Voltage                     | 22V  |            |   |            |
| Maximum Input Power                 | 1200W  | 1400W      | 1600W   | 2000W      |
| Maximum input Current               | 12A*4  | 14A*4      | 15A*4   | 16A*4      |
| <b>Output Data(AC)</b>              |  |            |   |            |
| Single-Phase Grid Type              | 120V&230V  |            |   |            |
| Rated Output Power                  | 1200W  | 1400W      | 1600W   | 2000W      |
| Maximum Output Power                | 1200W  | 1400W      | 1600W   | 2000W      |
| Nominal Output Current              | @120VAC:10A/@230VAC:5.2A<br>@120VAC:13.3A/@230VAC:6.9A   |            | @120VAC:11.6A/@230VAC:6A<br>@120VAC:16.6/@230VAC:8.6A |            |
| Nominal Output Voltage              | 120VAC /230VAC   |            |   |            |
| Default Output Voltage Range        | @120VAC:80V-160V /@230VAC:180V-270V  |            |   |            |
| Nominal Output Frequency            | 50Hz / 60Hz  |            |   |            |
| Default Output Frequency Range      | @50Hz:48Hz-51Hz/@60Hz:58Hz-61Hz  |            |   |            |
| Power Factor                        | >0.99%   |            |   |            |
| Total Harmonic Distortion           | THD <5%  |            |   |            |
| Maximum Units per Branch            | 1200W@120VAC:2units /@230VAC:3units(AC cable 3*1.5mm <sup>2</sup> )<br>1400W/1600@120VAC:1units /@230VAC:2units(AC cable 3*1.5mm <sup>2</sup> )<br>2000W@120VAC:1units /@230VAC:1units(AC cable 3*1.5mm <sup>2</sup> ) |            |   |            |
| <b>Efficiency</b>                   |  |            |   |            |
| Peak Efficiency                     | 95%  |            |   |            |
| Nominal MPPT Efficiency             | 99.5%  |            |   |            |
| Night Power Consumption             | <1w  |            |   |            |
| <b>Mechanical Data</b>              |  |            |   |            |
| Operating Ambient Temperature Range | -40°C to +65°C   |            |   |            |
| Storage Temperature Range           | -40°C to +85°C   |            |   |            |
| Dimensions(W*H *D)                  | 255mmx340mm x 45mm (not include connectors and cable)  |            |   |            |
| Weight                              | 3.65kg   |            |   |            |
| Max Current of AC Bus Cable         | 20A  |            |   |            |
| Waterproof Grade                    | IP66   |            |   |            |
| Cooling Mode                        | Natural Convection- No Fans  |            |   |            |
| <b>Other Features</b>               |  |            |   |            |
| Communication                       | WIFI(Cloud monitoring)   |            |   |            |
| Transformer Design                  | High Frequency Transformers,Galvanically Isolated  |            |   |            |
| Integrated Ground                   | Equipment ground is provided by the PE in the AC cable.No additional ground is required.   |            |   |            |
| Protection Functions                | Isolated Island Protection,Voltage Protection,Frequency Protection, Temperature Protection,Current Protection, etc.  |            |   |            |
| Design Compliance                   | EN IEC61000-3-2:2019+A1:2021,EN 61000-3-3:2013+A1:2019+A2:2021,<br>EN IEC55014-2:2021,EN IEC55014-2:2021.  |            |   |            |

Product specifications are subject to change without prior notice.